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Magill et al.

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[45] **Date of Patent:** **Nov. 22, 1994**

[54] **ELECTRONIC DOCUMENT INTERCHANGE TEST FACILITY**

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[21] Appl. No.: **753,265**

[22] Filed: **Aug. 30, 1991**

[51] **Int. Cl.⁵** **G06F 1/00**

[52] **U.S. Cl.** 395/575; 364/226.4

[58] **Field of Search** 395/575; 364/408, 250, 364/225.8, 226.4

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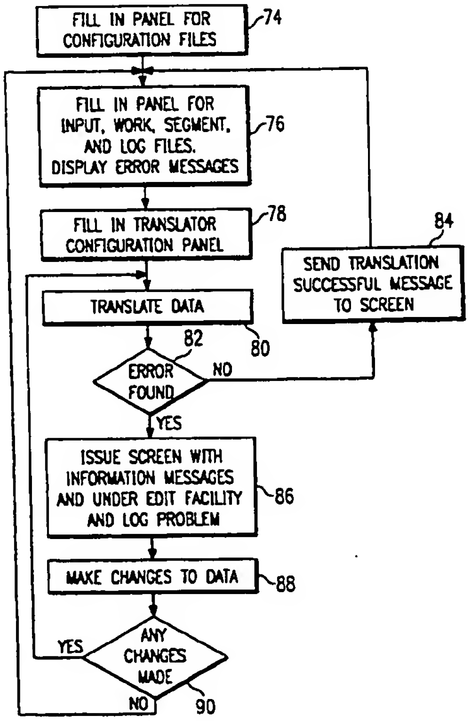
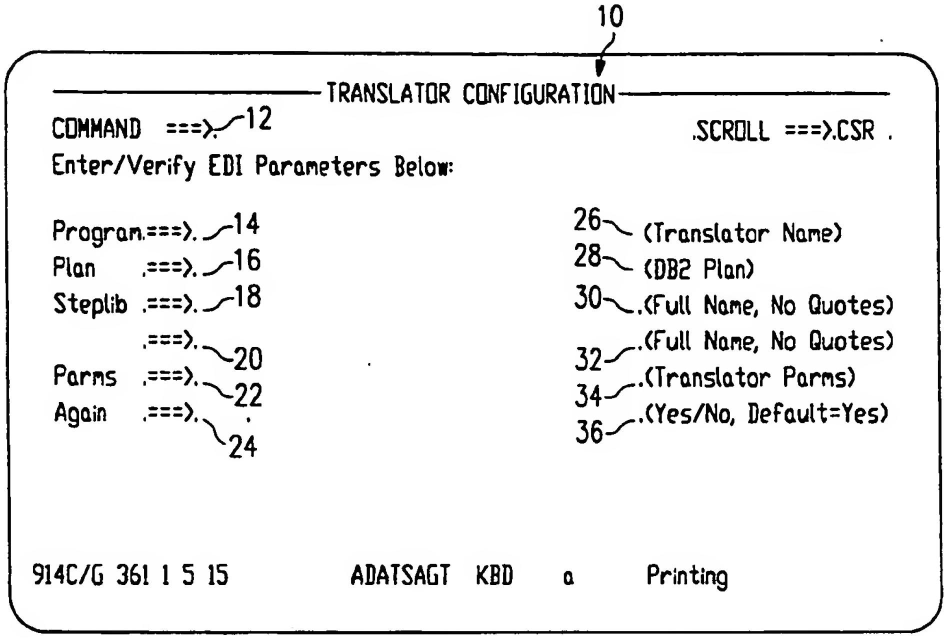
Primary Examiner—Robert W. Beausoliel
Assistant Examiner—Albert Decady
Attorney, Agent, or Firm—Tammy L. Williams; Richard L. Donaldson

[57] **ABSTRACT**

A method and system for electronic data interchange (EDI) translation testing displays a plurality of operator-interactive panels for controlling pre-production translation of EDI document files. The EDI Test Facility integrates numerous translator programs to detect translation errors. Once an error is detected, the EDI test facility displays the translation error and permits an operator to interactively correct the segment of the EDI document file containing the error. Once the error is corrected, the EDI Test Facility permits retranslation of the segment. When correctly translated, the segment is added to all previously corrected segments of the EDI document file in a working file. The method and system continue until stopped by the operator or EDI document file translation is complete.

7 Claims, 4 Drawing Sheets


FILL IN PANEL FOR CONFIGURATION FILES
74
FILL IN PANEL FOR INPUT, WORK, SEGMENT, AND LOG FILES. DISPLAY ERROR MESSAGES
76
FILL IN TRANSLATOR CONFIGURATION PANEL
78
84
SEND TRANSLATION SUCCESSFUL MESSAGE TO SCREEN
TRANSLATE DATA
82
80
ERROR FOUND
NO
YES
ISSUE SCREEN WITH INFORMATION MESSAGES AND UNDER EDIT FACILITY AND LOG PROBLEM
86
MAKE CHANGES TO DATA
88
YES
ANY CHANGES MADE
NO
90

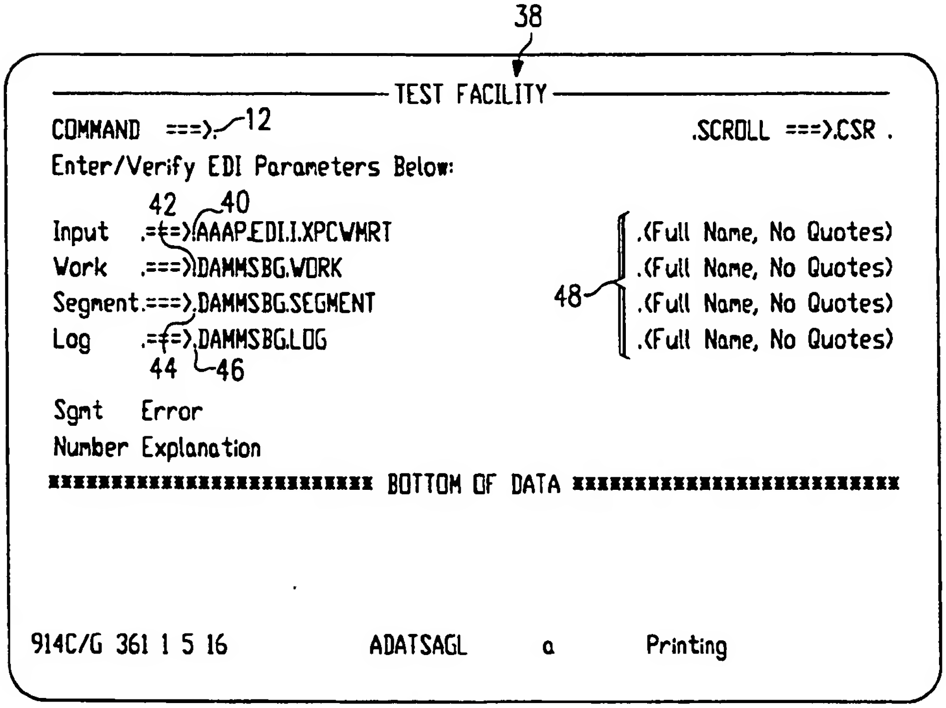


```
---------------------------- TRANSLATOR CONFIGURATION ------------------------------
COMMAND  ===>.                                                        .SCROLL ===>.CSR .
Enter/Verify EDI Parameters Below:

Program.===>.                                          (Translator Name)
Plan    .===>.                                         (DB2 Plan)
Steplib .===>.                                         .(Full Name, No Quotes)
        .===>.                                         .(Full Name, No Quotes)
Parms   .===>.                                         .(Translator Parms)
Again   .===>.                                         .(Yes/No, Default=Yes)


914C/G 361 1 5 15          ADATSAGT  KBD    a       Printing
```

FIG. 1



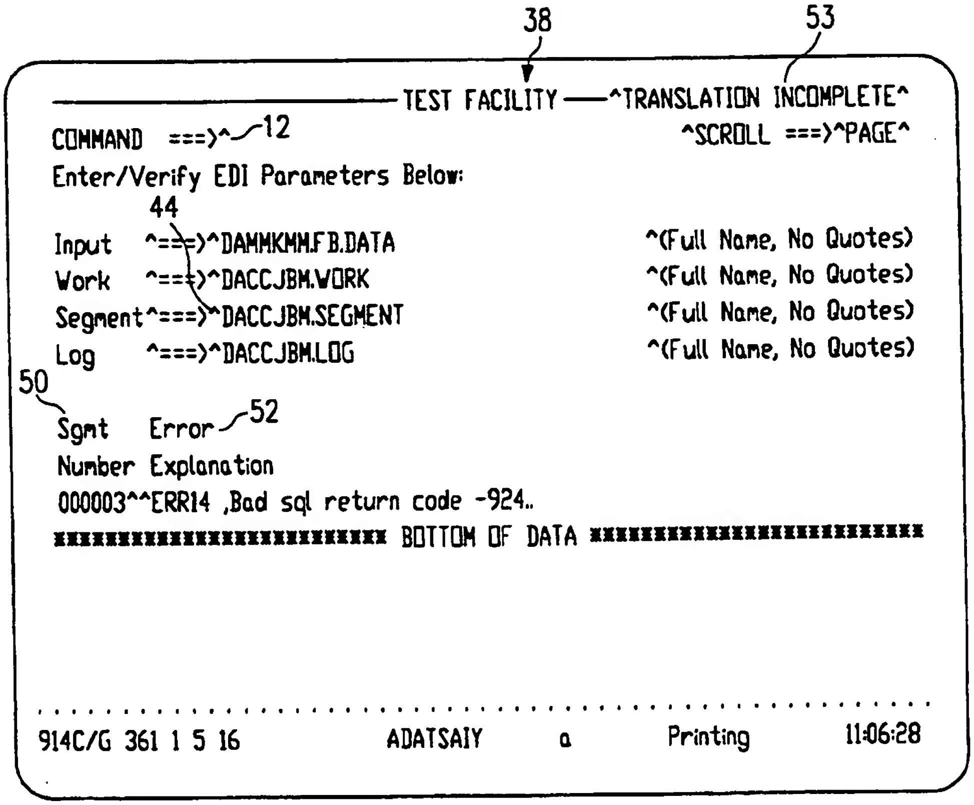
```
------------------------------ TEST FACILITY ---------------------------------
COMMAND  ===>.                                                  .SCROLL ===>.CSR .
Enter/Verify EDI Parameters Below:

Input   .===>.AAAP.EDI.I.XPCWMRT                         .(Full Name, No Quotes)
Work    .===>.DAMMSBG.WORK                               .(Full Name, No Quotes)
Segment.===>.DAMMSBG.SEGMENT                             .(Full Name, No Quotes)
Log     .===>.DAMMSBG.LOG                                .(Full Name, No Quotes)

Sgmt   Error
Number Explanation
*************************** BOTTOM OF DATA ***************************


914C/G 361 1 5 16          ADATSAGL       a       Printing
```

FIG. 2



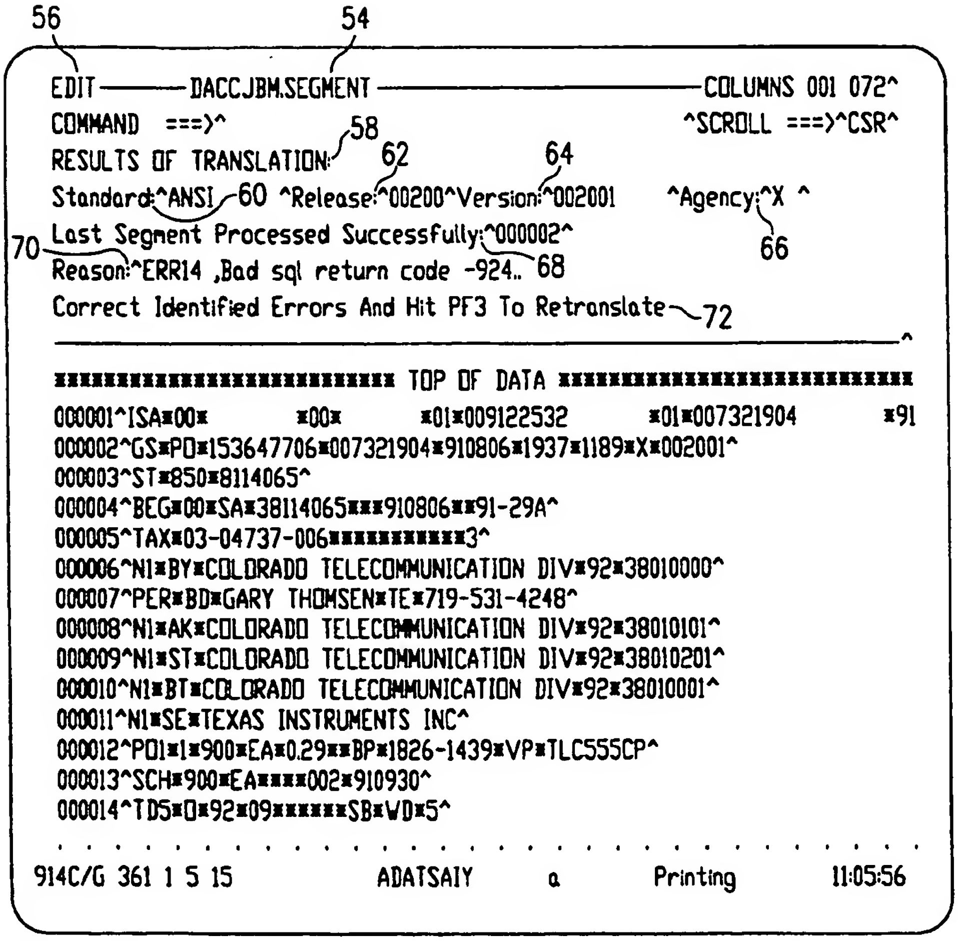
```
------------------------------ TEST FACILITY ----^TRANSLATION INCOMPLETE^
COMMAND  ===>^                                       ^SCROLL ===>^PAGE^
Enter/Verify EDI Parameters Below:

Input   ^===>^DAMMKMM.FB.DATA                    ^(Full Name, No Quotes)
Work    ^===>^DACCJBM.WORK                       ^(Full Name, No Quotes)
Segment^===>^DACCJBM.SEGMENT                     ^(Full Name, No Quotes)
Log     ^===>^DACCJBM.LOG                        ^(Full Name, No Quotes)

Sgmt   Error
Number Explanation
000003^^ERR14 ,Bad sql return code -924..
**************************** BOTTOM OF DATA ****************************

..........................................................................
914C/G 361 1 5 16            ADATSAIY        a       Printing       11:06:28
```

FIG. 3



```
EDIT———————DACCJBM.SEGMENT—————————————————————————COLUMNS 001 072^
COMMAND  ===>^                                          ^SCROLL ===>^CSR^
RESULTS OF TRANSLATION:
Standard:^ANSI  ^Release:^00200^Version:^002001    ^Agency:^X ^
Last Segment Processed Successfully:^000002^
Reason:^ERR14 ,Bad sql return code -924..
Correct Identified Errors And Hit PF3 To Retranslate
————————————————————————————————————————————————————————————————————^
****************************** TOP OF DATA ******************************
000001^ISA*00*          *00*          *01*009122532      *01*007321904      *91
000002^GS*PO*153647706*007321904*910806*1937*1189*X*002001^
000003^ST*850*8114065^
000004^BEG*00*SA*38114065***910806**91-29A^
000005^TAX*03-04737-006***********3^
000006^N1*BY*COLORADO TELECOMMUNICATION DIV*92*38010000^
000007^PER*BD*GARY THOMSEN*TE*719-531-4248^
000008^N1*AK*COLORADO TELECOMMUNICATION DIV*92*38010101^
000009^N1*ST*COLORADO TELECOMMUNICATION DIV*92*38010201^
000010^N1*BT*COLORADO TELECOMMUNICATION DIV*92*38010001^
000011^N1*SE*TEXAS INSTRUMENTS INC^
000012^PO1*1*900*EA*0.29**BP*1826-1439*VP*TLC555CP^
000013^SCH*900*EA****002*910930^
000014^TD5*O*92*09******SB*VD*5^
. . . . . . . . . . . . . . . . . . . . . . . . . . . . .
914C/G 361 1 5 15           ADATSAIY      a        Printing          11:05:56
```

FIG. 4

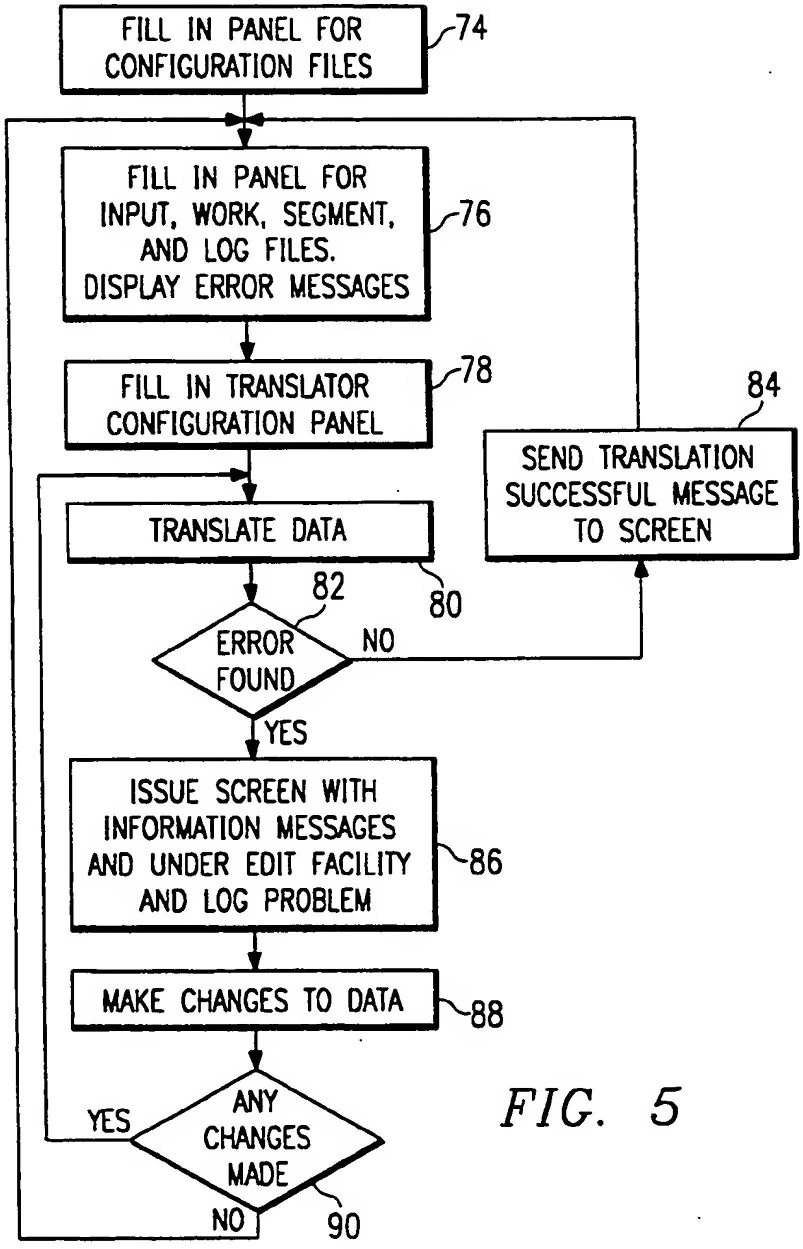

FILL IN PANEL FOR CONFIGURATION FILES
74
FILL IN PANEL FOR INPUT, WORK, SEGMENT, AND LOG FILES. DISPLAY ERROR MESSAGES
76
FILL IN TRANSLATOR CONFIGURATION PANEL
78
84
SEND TRANSLATION SUCCESSFUL MESSAGE TO SCREEN
TRANSLATE DATA
82
80
ERROR FOUND
NO
YES
ISSUE SCREEN WITH INFORMATION MESSAGES AND UNDER EDIT FACILITY AND LOG PROBLEM
86
MAKE CHANGES TO DATA
88
YES
ANY CHANGES MADE
NO
90

FIG. 5

ELECTRONIC DOCUMENT INTERCHANGE TEST FACILITY

TECHNICAL FIELD OF THE INVENTION

The present invention relates to the methods and systems for testing the transmission of data and more particularly, to a method for testing the transmission of electronic data interchange (EDI) documents files.

BACKGROUND OF THE INVENTION

In recent years many companies, in trading with other companies, for the transmission and receipt or interchange of business information have come to use computerized systems known as electronic data interchange or EDI systems. EDI systems enjoy the particular advantage of having an established set of standards applicable to various types of business documents. For example, in an EDI system, an invoice has a defined format and, as a result, may be rapidly transmitted between trading partners as a compact data file from the sending trading partner's computer to the receiving trading partner's computer. To create the compact data files, an EDI operator must first translate the EDI documents. The EDI document files are compact data files that the receiving trading partner receives. These compact data files are translated back into documents by the receiving trading partner.

Applications for EDI methods and systems include business activities such as purchasing, accounts payable and accounts receivable functions, banking transactions, electronic funds transfer and other document transfers. Other EDI system applications include order filling and processing between trading partners. Not only is this helpful in buying and selling goods, but also trading partners that are transportation companies may use this information to maximize the efficiency of the transportation services they provide. By using EDI systems, a trucking company, for example, may easily keep track of the origin and destination of all of its shipments throughout its service region.

The format standards for EDI documents are generally loosely written so that they can satisfy a wide variety of user needs. Thus, for example, while an EDI invoice format may have well-defined data fields, several aspects of the EDI invoice are variable. As a result, trading partners who agree to use an EDI system may agree to the format of communication between them prior to conducting a business transaction, and thereafter communication between the trading partners has the potential to occur on an almost immediate basis.

Although EDI systems represent a significant improvement in business communications between trading partners, known EDI systems stand in need of improvement in document translation efficiency. A particular problem in the translation of EDI documents is the need to assure that the documents, as they are generated from various points within a trading partner, satisfy the EDI document format EDI requirements. This is particularly important in cases where failure to satisfy applicable EDI document format requirements causes the translation to be either significantly incorrect or fully prohibited. It is, therefore, important that the sending trading partner ascertain that all documents satisfy the information and format requirements of the receiving trading partner before the trading partner sends them.

Known methods of testing EDI document translations require that when a receiving trading partner encounters a transmission error, the sending partner must identify and correct the error and, then, resend a corrected test EDI document file. This process often requires numerous iterations and creates time lapses which strain productivity. Correcting translation errors using a conventional EDI editing system has not proven practical, because any adjustment in the data link of EDI transmission requires that every character following the modification be adjusted. This results in a significant amount of tedious effort between both trading partners. This type of batch processing by the recipient is further limited, because only upon the detection of an error by the recipient can action be taken to correct the problem. Once this problem is corrected, it is necessary to completely rerun the file which may be halted again as a result of yet another error later in the EDI document file translation.

As a result, in order for EDI document transmissions to reach their full potential efficiency and speed there is a need for as a method and system for rapidly increasing the data translation rate between trading partners, it is necessary to have a rapid EDI translation test facility that does not strain the productivity of the receiving trading partner.

There is a need for a method and system that eliminates the batch processing necessary to identify errors in EDI translations.

There is yet the need for a method and system that permits EDI system operators to identify and correct EDI transmission errors without the need to begin again the EDI document file translation process.

SUMMARY OF THE INVENTION

The present invention, accordingly, provides an electronic data interchange testing method and system that overcomes the problems and satisfies the needs previously considered.

According to one aspect of the invention, there is provided a method for pre-production translation testing of EDI document files that comprises the steps of generating a plurality of control displays for controlling the pre-production translation of the EDI document file. Next, translation of the file takes place until a translation error arises. The method of the present invention is to display the translation error on one of the control displays so that the error may be corrected using an input to the control display. The next step is to correct the displayed translation error as indicated by the control display. This process of translating the file until a translation error arises, displaying the translation error for correction, and correcting the translation error continues until the EDI file is fully translated.

According to another aspect of the invention, there is provided within one of the control displays a plurality of initial queries for inputting initialization data pertaining to the EDI document file. The queries relate to the particular translation configuration for translating the data into a particular application program that has the ability to use the EDI document file. Moreover, a particularly attractive aspect of the invention is its ability to produce textual segment files for containing in textual form predetermined segments of the EDI file and permitting an operator to edit the textual segment file in response to the indicated translation error. Once all errors have been noted and a translation of the relevant section is complete, the segment is stored in a working file. The working file contains all of the previously corrected segments. Through this segmented approach, the working file becomes a corrected copy of the original EDI document file. Hence, upon the complete translation of the original EDI document file, the operator has the original EDI document file and a working EDI document file that was created by the segmentation process.

A technical advantage of the present invention is that it permits EDI systems to realize their intended benefits by eliminating redundant data flows that occur in known systems when EDI document files have translation errors. The EDI test facility of the present invention provides the receiving trading partner the ability to perform pre-production translation testing of EDI document files just prior to their translation. As a result, the EDI document file is fully translated and any errors incurred during this process are logged and can be made available to the sending trading partner as advised corrections; thus minimizing unproductive time lapses and iterative communication cycles between trading partners.

Another advantage of the present invention is that it fully avoids the batch processing that was heretofore necessary in the detecting EDI transmission file errors. Using the method and system of the present invention, a trading partner may employ the EDI test facility to correct interactively EDI document file transmission errors. This allows the trading partner to perform a single EDI document file translation and therefrom produce an error-free translated EDI document file. Because only one translation operation is necessary to produce the error-free EDI document file, the present invention eliminates much of the tedious work and productivity strain presently existing in EDI document file translation.

Yet another advantage of the present invention is that it permits the integration of numerous EDI application programs for error correction and translation. The integration that the present invention provides is functionally transparent to the operator and permits EDI document file translation with any type of translator. The solution that the preferred embodiment provides permits changing the test process from one in which a number of inadequate or unrelated tools are used for EDI translation to a process where an integrated and easy to use tool kit exists to aid the EDI translation operator. As a result, the interactive testing that the preferred embodiment provides significantly reduces transmission testing cycle time. This reduces software development costs and improves overall productivity in EDI document file applications among trading partners.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention and its modes of use and advantages are best understood by reference to the following description of illustrative embodiments when read in conjunction with the accompanying drawings, wherein:

FIG. 1 through 4 are various translation screens usable in a association with the preferred embodiment;

FIG. 5 is a flow chart illustrating the operation of the EDI test facility of the preferred embodiment; and

APPENDIX A provides a listing of the software code that the preferred embodiment of the present invention implements for EDI document file translation testing.

DETAILED DESCRIPTION OF THE INVENTION

The preferred embodiment of the present invention is best understood by referring to the FIGUREs wherein like numerals are used for like and corresponding parts of the various drawings.

The EDI test facility of the preferred embodiment integrates within the EDI system environment an operator interactive translation test facility that is accessible through a computer time share option link. In this environment, the EDI test facility of the preferred embodiment has numerous test configuration options. The EDI test facility of the preferred embodiment integrates its operation with the principal communication path among EDI partners for EDI transmissions known as the EDI system gateway. This permits an EDI system operator to locate and select an EDI transmission file for immediate translation testing. Once translation testing has commenced, error situations are brought to the operator's attention along with recommendations for correcting the error. The operator has the option to fix the error and continue testing until the translator detects another translation error. As translation testing continues, the test results are saved into a working file. The working file may be tested to verify a successful translation. Additionally, the preferred embodiment generates a log file to provide the operator with a listing of errors encountered during translation testing.

The EDI test facility may be used on any computer equipped to perform EDI translations and may operate in conjunction with any commercially available EDI translator software package. Examples of translator packages usable with the preferred embodiment include the following: transettlements, interbridge and proprietary translators.

To use the EDI test facility of the preferred embodiment, the operator may enter a time sharing option and receive an EDI document file on which to perform testing. To perform the operation, the EDI test facility of the preferred embodiment presents the operator with a set of operator friendly panels. FIGS. 1–4 illustrate the panels or screens that the operator sees in testing EDI document file for translation errors. In particular, FIG. 1 illustrates the "Translator Configuration Screen" that the preferred embodiment provides to the EDI translation test operator. The Translator Configuration Screen of FIG. 1, as indicated by Translator Configuration label 10, permits the operator to input a Command for EDI translation at point 12 of the screen, the EDI translator program that the operator will use at point 14, the EDI translation plan at point 16, the EDI Steplib, at points 18 and 20, EDI parms at point 22, and at point 24 the ability to respond to a query of whether a translation identified at points 14–22 as being translated again.

The EDI Steplib input defines a library associated with the test facility wherein the translator program resides, and the EDI parms input receives the parameters that the operator desires to pass to the translator program. The operator may provide these Translator Configuration Screen inputs to the EDI test facility of the preferred embodiment using a key board or other computer input device.

Associated with each of the inputs of points 14–24 are respective parameter descriptors. In particular, for the Program input point 14, the preferred embodiment indicates at point 26 that the proper response to the program input 14 is the "Translator Name." For the EDI plan input 16, the "DB2 Plan" parameter descriptor 28 means that for this particular translator, the DB2 plan is used. For Steplib inputs 28 and 20, descriptors 30 and 32 specify that the "Full Name" of the Steplib is necessary and that no quotes may be used. Parms input 22 must be Translated Parms, as descriptor 34 indicates. The appropriate response for the "Again" input 24 is "yes" or "no" with a default to "yes" as indicated by descriptor 36.

Once the operator establishes the translator configuration by appropriately responding to the Translator Configuration Screen of FIG. 1, the operator indicates the completion of this step by hitting the enter key. Test Facility Screen of FIG. 2 appears. Immediately thereafter, identifies Test Facility label 38 the Test Facility Screen. With this screen, the operator may input a command at point 12 and set up particular files necessary to perform the EDI document file transmission testing. For example, in the preferred embodiment, the operator provides to the EDI Test Facility the input file at point 40. In this example, the input file has the name, ".AAA.EDI.I.EXPCWMRT." The operator defines a work file at point 42 (e.g., ".DAMMSBG.WORK"), a segment file at point 44 (e.g., ".DAMMSBG.SEGMENT"), and a log file (e.g., "DAMMSBG.LOG") at point 46. The Test Facility Screen also assists the operator by describing the types of fields necessary at points 40–46 by the input descriptors 48 which appear as ".(Full Name, No Quotes)."

In response to this information and a subsequent command to conduct testing that the operator inputs at point 12, the Test Facility Screen can display the existence of a translation error. FIG. 3 shows the Test Facility screen that appears during translation testing. FIG. 3 shows outputs at Segment Number designator 50 and Error Explanation output 52 to provide indication of errors. In the example, the segment number where an error exists is segment number "000003" having an associated error code of "EER14" and an explanation of "Bad Sql Return Code - 924." This means that at segment number 000003 there was a DB2 problem in the EDI document file translation. With this error identifying information, the operator may insert an "Edit" command into the Command input point 12 of the Test Facility Screen to see the Edit Screen that appears at FIG. 4.

The preferred embodiment of the present invention, upon identifying the translation error, places a segment of the original input file that contains the translation error into a segment file. The segment file, in the example of the preferred embodiment, is identified at point 44 of the Test Facility Screens of FIGS. 2 and 3 and the Edit Screen designator 54. The Edit Screen designator 54 shows that the segment file name is "DACCJBM-.SEGMENT." The Edit Label 56 indicates to the operator that the operator is viewing the Edit Screen.

In the Edit Screen, as in the Translator Configuration Screen of FIG. 1 and the Test Facility Screen of FIGS. 2 and 3, command input 12 permits the operator to provide a command input. Other outputs of the Edit Screen include descriptive output of the results of the translation at output point 58, the Standard for translation at point 60 (e.g., "ANSI") the Release descriptor at output point 62, (e.g., "00200"),-the applicable Version at output point 64 (e.g., "002001"), and the particular Agency for output at point 66 (e.g., "X"). Because of the "Last Segment Process Successfully" output point 68, the operator at all times knows the last segment that was successfully processed. At the "Reason" output point 70, the operator receives the same information that previously appeared at Error Explanation output 52 of the Test Facility Screen shown in FIG. 3. This provides as the reason why the translation error occurred. Finally, the operator is prompted to "Correct Identified Errors And Hit PF3 to retranslate the corrected segment (e.g., segment 3 in this example).

The bottom part of the operator screen appearing at FIG. 4 shows the portion of the original EDI document file that the segment file contains. With this small segment, the operator may identify the error that the Test Facility Search lists and correct it. After which, the operator may depress the PF3 key of his keyboard to retranslate the segment and thereby verify that the error has been corrected.

In using the EDI Test Facility of the preferred embodiment, at each segment that the test facility identifies, the Test Facility output of FIG. 3 and the Edit Screen output of FIG. 4 communicate to the operator the existence of an error and the error location, as well as provide to the operator the ability to correct the error interactively. Once the error is corrected, the operator retranslates the corrected segment and the EDI Test Facility of the preferred embodiment continues to translate the EDI document file (e.g., DAMMKMM.FB.DATA of FIG. 3) until the translation is complete.

The Translation Incomplete signal 53 of FIG. 3 indicates that the translation of input file DAMMKMM.F-BDATA is not completed because of the error identified by segment number output 50 and error explanation output 52 (i.e., "ERR14, Badsql Return Code - 924 at segment 000003).

FIG. 5 shows a flow chart of the preferred EDI Test Facility embodiment to provide to the operator the screens appearing in FIG. 1–4. First the operator fills in the Transfer Configuration Screen to establish the configuration files of step 74. Next, the operator fills in the test facility panel for input, work, segment, and log files at step 76. Also at step 76, using the Test Facility screens of FIGS. 2 and 3 the EDI Test Facility of the preferred embodiment displays any error messages arising from the EDI translation. Next, the EDI Test Facility of the preferred embodiment at step 78 permits the operator to fill in the translator configuration of FIG. 1. The preferred embodiment then translates the data at step 80 and queries whether an error has been found in the EDI file translation at step 82.

If no error occurs, the preferred embodiment sends a translation successful message to the Test Facility screen at step 84 and then permits the operator to change the input work segment and log files and continue at steps 76 and the Translator Configuration of step 78. On the other hand, if an error is found at step 82, EDI test facility of the preferred embodiment at step 86, issues the information to the Test Facility Screen (see FIG. 3) and provides the operator with the ability to use the Edit Facility of the preferred embodiment. At step 86, the preferred embodiment also logs the problem in the previously designated log file (see FIG. 3).

Under the edit facility, the EDI Test Facility permits the operator to make changes to the data at step 88 and query whether any changes were made at step 90. If no changes were made, control returns to step 76 where the operator is to fill in the input, work, segment, and log file as well as to display the error message arising from the failed translation. On the other hand, if changes are made then the program control returns to step 80 to translate data and determine whether any further error exists.

Appendix A provides a complete listing of the source code for the EDI Test Facility of the preferred embodiment.

Although the present invention and its advantages have been described in detail, it should be understood that various changes, substitutions and alterations can be made herein without departing from the spirit and scope the invention as defined in the appended claims.

APPENDIX A

```
         TITLE 'EDITSBED - EDI TEST FACILITY'
         SPACE 2
*************************************************************
*-----------------------------------------------------------*
*                -----    N O T I C E    -----              *
*       THIS EDI TEST FACILITY SOURCE MODULE                *
*                    IS TI CLASSIFIED:                      *
* T E X A S  I N S T R U M E N T S  I N T E R N A L  D A T A *
*   P R O P E R T Y  O F  T E X A S  I N S T R U M E N T S  *
*                         O N L Y                           *
*                TEXAS INSTRUMENTS, INC.                    *
*   13500 N. CENTRAL EXPRESSWAY, DALLAS, TEXAS   75265      *
*-----------------------------------------------------------*
*************************************************************
         SPACE 2
         REGS
         SPACE 2
         IHASDWA
         SPACE 2
         EDIDEQU
         SPACE 2
         CVT   DSECT=YES
         TICVT
         SPACE 2
         IFGACB
         SPACE 2
         IFGRPL
         SPACE 2
         IEFZB4D0
         SPACE 2
         IEFZB4D2
         SPACE 2
         DCBD  DSORG=BS,DEVD=DA
         SPACE 2
DCBPARMS DSECT
DCBXDDNM DS    CL8
DCBXRFMT DS    X
DCBXLREC DS    XL2
DCBXBLKS DS    XL2
DCBXPRIM DS    XL3
DCBXNEW  EQU   DCBPARMS,*-DCBPARMS,C'X'
TRANREC  DSECT
TRANSTND DS    CL8
TRANRLSE DS    CL5
TRANVERS DS    CL12
TRANAGCY DS    CL2
TRANSDLM DS    CL1
TRANREAS DS    CL71
TRANBIF  DS    CL10
TRANWELM DS    CL8
TRANLAST DS    CL6
TRANTAG  DS    CL20
TRANVAL  DS    CL40
TRANSTOR EQU   TRANTAG,*-TRANTAG,C'C'
EDITSBED CSECT
         USING EDITSBED.R10           NOTE BASE ADDRESSIBILITY
         STM   R14.R12.12(R13)        SAVE ENTRY REGS
         LR    R10.R15                COPY ENTRY ADDRESS
         LA    R11.2048(.R10)         INITIALIZE 2ND BASE REG
         LA    R11,2048(,R11)

         USING EDITSBED+4096,R11
         LA    R1,SAVEAREA            POINT TO SAVE AREA
         ST    R13,4(,R1)             LINK TO CALLERS SAVE AREA
         ST    R1,8(,R13)             LINK TO OUR SAVE AREA
         LR    R13,R1                 ESTABLISH SAVE AREA
         SPACE 1
*---------------------------------------------------------------------*
*        SET UP AN ESTAE EXIT                                         *
*---------------------------------------------------------------------*
         SPACE 1
         ESTAE TBABEND,               ESTABLISH AN ESTAE              +
               PARAM=(R10),                                           +
               XCTL=YES
         SPACE 1
*---------------------------------------------------------------------*
*        INITIALIZE                                                   *
```

```
*-----------------------------------------------------------------------* 00770000
         SPACE 1                                                          00780000
         OI    FLAG1,INIT          SET INITIALIZING                       00790000
         USING IHADCB,R12                                                 00800000
         SPACE 1                                                          00810000
         LOAD  EP=ISPLINK          LOAD LINK PROGRAM                      00820000
         SPACE 1                                                          00830000
         ST    R0,ISPLADDR         SAVE ADDRESS                           00840000
         SPACE 1                                                          00850000
*-----------------------------------------------------------------------* 00860000
*        DEFINE PROCESSSING OPTIONS FOR DIALOGUE SERVICE                * 00870000
*-----------------------------------------------------------------------* 00880000
         SPACE 1                                                          00890000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        00900000
         CALL  (15),(CONTROL,ERRORS,RETURN),VL                            00910000
         SPACE 1                                                          00920000
*-----------------------------------------------------------------------* 00930000
*        DEFINE MISC. VARIABLE NAMES TO ISPF                            * 00940000
*-----------------------------------------------------------------------* 00950000
         SPACE 1                                                          00960000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        00970000
         CALL  (15),(VDEFINE,ZUSERLIT,ZUSER,CHAR,LENGTH8),VL              00980000
         SPACE 1                                                          00990000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01000000
         CALL  (15),(VDEFINE,DSNLIT,DSN,CHAR,LENGTH44),VL                 01010000
         SPACE 1                                                          01020000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01030000
         CALL  (15),(VDEFINE,DSNWLIT,DSNW,CHAR,LENGTH44),VL               01040000
         SPACE 1                                                          01050000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01060000
         CALL  (15),(VDEFINE,DSNALITT,DSNAT,CHAR,LENGTH44),VL             01070000
         SPACE 1                                                          01080000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01090000
         CALL  (15),(VDEFINE,DSNALITP,DSNAP,CHAR,LENGTH44),VL             01100000
         SPACE 1                                                          01110000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01120000
         CALL  (15),(VDEFINE,DSNCLITT,DSNCT,CHAR,LENGTH44),VL             01130000
         SPACE 1                                                          01140000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01150000
         CALL  (15),(VDEFINE,DSNCLITP,DSNCP,CHAR,LENGTH44),VL             01160000
         SPACE 1                                                          01170000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01180000
         CALL  (15),(VDEFINE,DSNILITT,DSNIT,CHAR,LENGTH44),VL             01190000
         SPACE 1                                                          01200000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01210000
         CALL  (15),(VDEFINE,DSNILITP,DSNIP,CHAR,LENGTH44),VL             01220000
         SPACE 1                                                          01230000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01240000
         CALL  (15),(VDEFINE,DSNXLITT,DSNXT,CHAR,LENGTH44),VL             01250000
         SPACE 1                                                          01260000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01270000
         CALL  (15),(VDEFINE,DSNXLITP,DSNXP,CHAR,LENGTH44),VL             01280000
         SPACE 1                                                          01290000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01300000
         CALL  (15),(VDEFINE,DSNOLITT,DSNOT,CHAR,LENGTH44),VL             01310000
         SPACE 1                                                          01320000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01330000
         CALL  (15),(VDEFINE,DSNOLITP,DSNOP,CHAR,LENGTH44),VL             01340000
         SPACE 1                                                          01350000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01360000
         CALL  (15),(VDEFINE,DSNSLIT,DSNS,CHAR,LENGTH44),VL               01370000
         SPACE 1                                                          01380000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01390000
         CALL  (15),(VDEFINE,DSNLLIT,DSNL,CHAR,LENGTH44),VL               01400000
         SPACE 1                                                          01410000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01420000
         CALL  (15),(VDEFINE,STDLIT,STD,CHAR,LENGTH8),VL                  01430000
         SPACE 1                                                          01440000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01450000
         CALL  (15),(VDEFINE,RLSLIT,RLS,CHAR,LENGTH5),VL                  01460000
         SPACE 1                                                          01470000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01480000
         CALL  (15),(VDEFINE,VERSLIT,VERS,CHAR,LENGTH12),VL               01490000
         SPACE 1                                                          01500000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01510000
         CALL  (15),(VDEFINE,AGCYLIT,AGCY,CHAR,LENGTH2),VL                01520000
         SPACE 1                                                          01530000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01540000
         CALL  (15),(VDEFINE,REASLIT,REAS,CHAR,LENGTH71),VL               01550000
         SPACE 1                                                          01560000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01570000
         CALL  (15),(VDEFINE,NUMBLIT,NUMB,CHAR,LENGTH6),VL                01580000
         SPACE 1                                                          01590000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01600000
         CALL  (15),(VDEFINE,LASTLIT,LASTSEG,CHAR,LENGTH6),VL             01610000
         SPACE 1                                                          01620000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01630000
         CALL  (15),(VDEFINE,RTC,RTNCODE,HEX,LENGTH4),VL                  01640000
         SPACE 1                                                          01650000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE        01660000
         CALL  (15),(VDEFINE,REEZ,REEZCODE,HEX,LENGTH2),VL                01670000
         SPACE 1
         L     R15,ISPLADDR             LOAD ADDRESS OF ISPLINK ROUTINE
         CALL  (15),(VDEFINE,DD,DDERR,CHAR,LENGTH8),VL
         SPACE 1
*---------------------------------------------------------------------*
*        CREATE TABLE NEEDED FOR FIRST PANEL                          *
*---------------------------------------------------------------------*
         SPACE 1
         L     R15,ISPLADDR             LOAD ADDRESS OF ISPLINK ROUTINE
         CALL  (15),(TBCREATE,VARTABLE,,VARLIST,NOWRITE),VL
         SPACE 1
         LTR   R15,R15                  ERROR?
         BNZ   ERROR01                  YES-
         SPACE 1
*---------------------------------------------------------------------*
*        RETRIEVE TSO USERID                                          *
*---------------------------------------------------------------------*
         SPACE 1
         L     R15,ISPLADDR             LOAD ADDRESS OF ISPLINK ROUTINE
         CALL  (15),(VGET,USERLIST,SHARED),VL
         SPACE 1
*---------------------------------------------------------------------*
*        ALLOCATE DISP=SHR DATASETS NEEDED BY TRANSLATOR              *
*---------------------------------------------------------------------*
         SPACE 1
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE
         LA    R2,DSLISTS               POINT TO DATASET LIST
         USING DCBPARMS,R2              GET ADDRESSABILITY
DSLISTSX DS    0H
         LA    R1,DSALLOCS              POINT TO TEXT UNIT LIST
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK
         CLI   0(R2),C' '               END OF LIST?
         BE    ALLOCOLD                 YES-
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),DCBXDDNM SET DDNAME
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),=CL44' ' BLANK OUT DSN
         MVC   TXTDSN+S99TUPAR-S99TUNIT(L'ZUSER),ZUSER COPY TSO USERID
         LA    R15,TXTDSN+S99TUPAR-S99TUNIT POINT TO WORK AREA
         LA    R14,44                   SET COUNT
FINDBLNX DS    0H
         CLI   0(R15),C' '              FIND FIRST BLANK
         BE    FOUNDBLX                 FOUND IT-
         LA    R15,1(R15)               POINT TO NEXT BYTE
         BCT   R14,FINDBLNX
FOUNDBLX DS    0H
         MVC   0(4,R15),=CL4'.TF.' SET MIDDLE NODE
         LA    R15,4(R15)               INCREMENT POINTER
         MVC   0(8,R15),DCBXDDNM        SET REST OF DSN
         BAL   R9,DYNA                  GO ALLOC FILE
         B     CKERRORX                 ERROR ON ALLOCATION
NEXTLISS DS    0H
         LA    R2,L'DCBXNEW(R2)         POINT TO NEXT ENTRY
         B     DSLISTSX                 CONTINUE
CKERRORX DS    0H
         CLC   =XL2'1708',DYNRB+S99ERROR-S99RB LOCATE ERROR?
         BNE   ERROR02                  NO-
         LA    R1,DSALLOCN              POINT TO TEXT UNIT LIST
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK
         MVC   TXTRECFM+S99TUPAR-S99TUNIT(L'DCBXRFMT),DCBXRFMT
         MVC   TXTLRECL+S99TUPAR-S99TUNIT(L'DCBXLREC),DCBXLREC
         MVC   TXTBLKSZ+S99TUPAR-S99TUNIT(L'DCBXBLKS),DCBXBLKS
         MVC   TXTPRIME+S99TUPAR-S99TUNIT(L'DCBXPRIM),DCBXPRIM
         BAL   R9,DYNA                  GO ALLOC FILE
         B     ERROR02                  ERROR ON ALLOCATION
         B     NEXTLISS                 CONTINUE
         DROP  R2
         SPACE 1
*---------------------------------------------------------------------*
*        ALLOCATE DISP=OLD DATASETS NEEDED BY TRANSLATOR              *
*---------------------------------------------------------------------*
         SPACE 1
ALLOCOLD DS    0H
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE
         LA    R2,DSLISTO               POINT TO DATASET LIST

         USING DCBPARMS,R2              GET ADDRESSABILITY
DSLISTOX DS    0H
         LA    R1,DSALLOCO              POINT TO TEXT UNIT LIST
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK
         CLI   0(R2),C' '               END OF LIST?
         BE    ALLOCSO                  YES-
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),DCBXDDNM SET DDNAME
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),=CL44' ' BLANK OUT DSN
         MVC   TXTDSN+S99TUPAR-S99TUNIT(L'ZUSER),ZUSER COPY TSO USERID
         LA    R15,TXTDSN+S99TUPAR-S99TUNIT POINT TO WORK AREA
         LA    R14,44                   SET COUNT
FINDBLNK DS    0H
         CLI   0(R15),C' '              FIND FIRST BLANK
         BE    FOUNDBLK                 FOUND IT-
         LA    R15,1(R15)               POINT TO NEXT BYTE
         BCT   R14,FINDBLNK
FOUNDBLK DS    0H
         MVC   0(4,R15),=CL4'.TF.' SET MIDDLE NODE
         LA    R15,4(R15)           INCREMENT POINTER
         MVC   0(8,R15),DCBXDDNM    SET REST OF DSN
         BAL   R9,DYNA              GO ALLOC FILE
         B     CKERROR              ERROR ON ALLOCATION
NEXTLISO DS    0H
         LA    R2,L'DCBXNEW(R2)     POINT TO NEXT ENTRY
         B     DSLISIOX             CONTINUE
CKERROR  DS    0H
         CLC   =XL2'1708',DYNRB+S99ERROR-S99RB LOCATE ERROR?
         BNE   ERROR02              NO-
         LA    R1,DSALLOCN          POINT TO TEXT UNIT LIST
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK
         MVC   TXTRECFM+S99TUPAR-S99TUNIT(L'DCBXRFMT),DCBXRFMT
         MVC   TXTLRECL+S99TUPAR-S99TUNIT(L'DCBXLREC),DCBXLREC
         MVC   TXTBLKSZ+S99TUPAR-S99TUNIT(L'DCBXBLKS),DCBXBLKS
         MVC   TXTPRIME+S99TUPAR-S99TUNIT(L'DCBXPRIM),DCBXPRIM
         BAL   R9,DYNA              GO ALLOC FILE
         B     ERROR02              ERROR ON ALLOCATION
         B     NEXTLISO             CONTINUE
         DROP  R2
         SPACE 1
*--------------------------------------------------------------*
*        ALLOCATE SYSOUT NEEDED BY TRANSLATOR                  *
*--------------------------------------------------------------*
         SPACE 1
ALLOCSO  DS    0H
         LA    R1,SQALLOC           POINT TO TEXT UNIT LIST
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE
         LA    R2,SOLIST            POINT TO SYSOUT LIST
SOLISTX  DS    0H
         CLI   0(R2),C' '           END OF LIST?
         BE    GETVARS              YES-
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME
         BAL   R9,DYNA              GO ALLOC DATABASE
         B     ERROR02              ERROR ON ALLOCATION
         LA    R2,8(R2)             POINT TO NEXT DDNAME
         B     SOLISTX              CONTINUE
         SPACE 1
*--------------------------------------------------------------*
*        RETRIEVE PANEL VARIABLES FOR DISPLAY                  *
*--------------------------------------------------------------*
         SPACE 1
GETVARS  DS    0H
         L     R15,ISPLADDR         LOAD ADDRESS OF ISPLINK ROUTINE
         CALL  (15),(VGET,SAVLIST,PROFILE),VL
         SPACE 1
*--------------------------------------------------------------*
*        DISPLAY CONFIGURATION PANEL TO GET FILE NAMES         *
*--------------------------------------------------------------*
         SPACE 1
CONFIG   DS    0H
         LA    R1,DSUNCONC          POINT TO TEXT UNIT LIST
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK
         MVI   DYNRB+S99VERB-S99RB,S99VRBDC SET TO UNALLOCATE
         LA    R2,DSLIST            POINT TO DS LIST
UNCONC   DS    0H
         CLC   =C'VSAM',0(R2)       END OF LIST?
         BE    UNALCONF             YES-
         MVC   TXTDDU+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME
         BAL   R9,DYNA              GO UNCONCAT FILES
         B     *+4                  ERROR ON UNCONCAT
         LA    R2,104(R2)           POINT TO NEXT DDNAME
         B     UNCONC               CONTINUE
UNALCONF DS    0H
         LA    R1,DSUNALOC          POINT TO TEXT UNIT LIST
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK
         MVI   DYNRB+S99VERB-S99RB,S99VRBUN SET TO UNALLOCATE
         LA    R2,DSLIST            POINT TO DS LIST
UNALDSX  DS    0H
         CLI   0(R2),C' '           END OF LIST?
         BE    DISPCONF             YES-
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME
         BAL   R9,DYNA              GO UNALLOCATE FILE
         B     *+4                  ERROR ON UNALLOCATION
         LA    R2,52(R2)            POINT TO NEXT DDNAME
         B     UNALDSX              CONTINUE
         SPACE 1
DISPCONF DS    0H
         L     R15,ISPLADDR         LOAD ADDRESS OF ISPLINK ROUTINE
         CALL  (15),(DISPLAY,PANEL3),VL DISPLAY
         SPACE 1
         CH    R15,=H'8'            END/RETURN ENTERED?
         BE    ENDSESS              YES-
         NI    FLAG1,FF-INIT        RESET INIT FLAG
         SPACE 1
*--------------------------------------------------------------*
*        ALLOCATE DISP=SHR DATASETS NEEDED BY TRANSLATOR       *
*--------------------------------------------------------------*
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         SPACE 1                                                        03480000
         LA    R1,DSALLOCS             POINT TO TEXT UNIT LIST          03490000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     03500000
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE             03510000
         LA    R2,DSLIST               POINT TO DATASET LIST            03520000
DSLISTX  DS    0H                                                       03530000
         CLI   0(R2),C' '              END OF LIST?                     03540000
         BE    CONCLIST                YES-                             03550000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME             03560000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),8(R2) COPY DS NAME          03570000
         BAL   R9,DYNA                 GO ALLOC FILE                    03580000
         B     ERROR02                 ERROR ON ALLOCATION              03590000
         LA    R2,52(R2)               POINT TO NEXT DATASET NAME       03600000
         B     DSLISTX                 CONTINUE                         03610000
CONCLIST DS    0H                                                       03620000
         LA    R1,DSCONCLS             POINT TO TEXT UNIT LIST          03630000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     03640000
         MVI   DYNRB+S99VERB-S99RB,S99VRBCC SET TO ALLOCATE             03650000
         LA    R2,DSLIST               POINT TO DATASET LIST            03660000
CONCNEXT DS    0H                                                       03670000
         CLC   =C'VSAM',0(R2)          END OF LIST?                     03680000
         BE    DISPPRIM                YES-                             03690000
         MVC   TXTCONC+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME           03700000
         LA    R2,52(R2)               POINT TO NEXT DDNAME             03710000
         MVC   TXTCONCX,0(R2)          COPY SECOND DDNAME               03720000
         BAL   R9,DYNA                 GO ALLOC FILE                    03730000
         B     ERROR02                 ERROR ON ALLOCATION              03740000
         LA    R2,52(R2)               POINT TO NEXT DDNAME             03750000
         B     CONCNEXT                CONTINUE                         03760000
         SPACE 1                                                        03770000
*---------------------------------------------------------------------* 03780000
*        DISPLAY PRIMARY PANEL                                         * 03790000
*---------------------------------------------------------------------* 03800000
         SPACE 1                                                        03810000
DISPPRIM DS    0H                                                       03820000
         LA    R12,LOGDCB               POINT TO LOG DCB                03830000
         TM    DCBOFLGS,DCBOFOPN        IS IT OPEN?                     03840000
         BNO   LOGCLOSE                 NO-                             03850000
         SPACE 1                                                        03860000
         CLOSE ((R12))                  CLOSE IT                        03870000
         SPACE 1                                                        03880000
         LR    R1,R12                   COPY DCB ADDRESS                03890000
         SPACE 1                                                        03900000
         FREEPOOL (1)                   FREE QSAM BUFFERS               03910000
LOGCLOSE DS    0H                                                       03920000
         LA    R1,DSUNALOC             POINT TO TEXT UNIT LIST          03930000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     03940000
         MVI   DYNRB+S99VERB-S99RB,S99VRBUN SET TO UNALLOCATE           03950000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'USERFILE'                03960000
         BAL   R9,DYNA                 GO UNALLOC                       03970000
         B     *+4                     ERROR ON UNALLOCATION            03980000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'INPUT'                   03990000
         BAL   R9,DYNA                 GO UNALLOC                       04000000
         B     *+4                     ERROR ON UNALLOCATION            04010000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'SGMTFILE'                04020000
         BAL   R9,DYNA                 GO UNALLOC                       04030000
         B     *+4                     ERROR ON UNALLOCATION            04040000
         SPACE 1                                                        04050000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'LOG'                     04060000
         BAL   R9,DYNA                 GO UNALLOC                       04070000
         B     *+4                     ERROR ON UNALLOCATION            04080000
         SPACE 1                                                        04090000
         L     R15,ISPLADDR            LOAD ADDRESS OF ISPLINK ROUTINE  04100000
         CALL  (15),(TBTOP,VARTABLE),VL DISPLAY                         04110000
         SPACE 1                                                        04120000
         L     R15,ISPLADDR            LOAD ADDRESS OF ISPLINK ROUTINE  04130000
         CALL  (15),(TBDISPL,VARTABLE,PRIMARY),VL DISPLAY               04140000
         SPACE 1                                                        04150000
         CH    R15,=H'8'               END/RETURN ENTERED?              04160000
         BE    CONFIG                  YES-                             04170000
         SPACE 2                                                        04180000
*-----------------------------------------------------------*           04190000
*        DELETE AND RECREATE TABLE OF ERRORS                 *           04200000
*-----------------------------------------------------------*           04210000
         SPACE 2                                                        04220000
         L     R15,ISPLADDR            LOAD ADDRESS OF ISPLINK ROUTINE  04230000
         CALL  (15),(TBCLOSE,VARTABLE),VL                               04240000
         SPACE 1                                                        04250000
         L     R15,ISPLADDR            LOAD ADDRESS OF ISPLINK ROUTINE  04260000
         CALL  (15),(TBCREATE,VARTABLE,,VARLIST,NOWRITE),VL             04270000
         SPACE 1                                                        04280000
         LTR   R15,R15                 ERROR?                           04290000
         BNZ   ERROR01                 YES-                             04300000
         SPACE 2                                                        04310000
*-----------------------------------------------------------*           04320000
*        ALLOCATE INPUT FILE SPECIFIED BY USER               *           04330000
*-----------------------------------------------------------*           04340000
         SPACE 2                                                        04350000
         LA    R1,DSALLOCS             POINT TO TEXT UNIT LIST          04360000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     04370000
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE             04380000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'USERFILE' SET DDNAME     04390000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),DSN   COPY DS NAME          04400000
         BAL   R9,DYNA              GO ALLOC FILE                       04410000
         B     ERROR02              ERROR ON ALLOCATION                 04420000
         SPACE 1                                                        04430000
         LA    R1,DSALLOCO          POINT TO TEXT UNIT LIST             04440000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     04450000
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE             04460000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'LOG' SET DDNAME          04470000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),DSNL  COPY DS NAME          04480000
         BAL   R9,DYNA              GO ALLOC FILE                       04490000
         B     ERROR02              ERROR ON ALLOCATION                 04500000
         LA    R1,DSALLOCO          POINT TO TEXT UNIT LIST             04510000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     04520000
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE             04530000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'INPUT' SET DDNAME        04540000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),DSNH  COPY DS NAME          04550000
         BAL   R9,DYNA              GO ALLOC FILE                       04560000
         B     ERROR02              ERROR ON ALLOCATION                 04570000
         LA    R12,INPDCB           POINT TO DCB                        04580000
         MVC   DDERR,DCBDDNAM       SET DDNAME IN ERROR MSG             04590000
         SPACE 1                                                        04600000
         OPEN  ((R12),(INPUT))      OPEN FILE                           04610000
         SPACE 1                                                        04620000
         TM    DCBOFLGS,DCBOFOPN    WAS OPEN SUCCESSFUL?                04630000
         BNO   ERROR06              NO-                                 04640000
         TM    DCBRECFM,DCBRECF+DCBRECBR FB RECORDS?                    04650000
         BNO   ERROR10              ERROR                               04660000
         LH    R0,DCBLRECL          GET LRECL                           04670000
         CH    R0,=H'80'            LRECL = 80?                         04680000
         BNE   ERROR10              NO ERROR                            04690000
         SPACE 1                                                        04700000
         CLOSE ((R12))              CLOSE FILE                          04710000
         SPACE 1                                                        04720000
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE             04730000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'SGMTFILE' SET DDNAME     04740000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),DSNS  COPY DS NAME          04750000
         BAL   R9,DYNA              GO ALLOC FILE                       04760000
         B     ERROR02              ERROR ON ALLOCATION                 04770000
         LA    R12,OUTDCBX          POINT TO DCB                        04780000
         MVC   DDERR,DCBDDNAM       SET DDNAME IN ERROR MSG             04790000
         SPACE 1                                                        04800000
         OPEN  ((R12),(INPUT))      OPEN FILE                           04810000
         SPACE 1                                                        04820000
         TM    DCBOFLGS,DCBOFOPN    WAS OPEN SUCCESSFUL?                04830000
         BNO   ERROR06              NO-                                 04840000
         TM    DCBRECFM,DCBRECV+DCBRECBR VB RECORDS?                    04850000
         BNO   ERROR11              NO- ERROR                           04860000
         LH    R0,DCBLRECL          GET LRECL                           04870000
         CH    R0,=H'259'           LRECL = 259?                        04880000
         BNE   ERROR11              NO ERROR                            04890000
         SPACE 1                                                        04900000
         CLOSE ((R12))              CLOSE FILE                          04910000
         SPACE 1                                                        04920000
         MVC   IDCB,=CL8'USERFILE' SET INPUT DDNAME FOR REBLOCK         04930000
         MVC   ODCB,=CL8'INPUT' SET OUTPUT DDNAME FOR REBLOCK           04940000
         LA    R12,LOGDCB             POINT TO STORE DCB                04950000
         MVC   DDERR,DCBDDNAM         SET DDNAME IN ERROR MSG           04960000
         SPACE 1                                                        04970000
         OPEN  ((R12),(OUTPUT))       OPEN FILE                         04980000
         SPACE 1                                                        04990000
         TM    DCBOFLGS,DCBOFOPN      WAS OPEN SUCCESSFUL?              05000000
         BNO   ERROR06                NO-                               05010000
TRANLOOP DS    0H                                                       05020000
         SPACE 1                                                        05030000
         CALL  REBLK,(DCBNAMES),VL GO REBLOCK FILE FOR XLATOR           05040000
         SPACE 1                                                        05050000
         LTR   R15,R15                REBLOCK OK?                       05060000
         BNZ   ERROR04                NO-                               05070000
         SPACE 1                                                        05080000
         L     R15,ISPLADDR           LOAD ADDRESS OF ISPLINK ROUTINE   05090000
         SPACE 1                                                        05100000
         CALL  (15),(SELECT,LENGTH11,SELCMD),VL                         05110000
         SPACE 1                                                        05120000
         LTR   R15,R15                BYPASS CHECK                      05130000
         BNZ   BYPASST                YES-                              05140000
         SPACE 1                                                        05150000
*------------------------------------------------------------------*    05160000
*        GET INFORMATION ABOUT PROBLEM                             *    05170000
*------------------------------------------------------------------*    05180000
         SPACE 1                                                        05190000
CHECKERR DS    0H                                                       05200000
         LA    R12,ERRDCB             POINT TO ERROR DCB                05210000
         MVC   DDERR,DCBDDNAM         SET DDNAME IN ERROR MSG           05220000
         LA    R0,BYPASST             SET EOD ADDRESS                   05230000
         STCM  R0,B'0111',DCBEODA     IN DCB                            05240000
         SPACE 1                                                        05250000
         OPEN  ((R12),(INPUT))        OPEN FILE                         05260000
         SPACE 1                                                        05270000
         TM    DCBOFLGS,DCBOFOPN      WAS OPEN SUCCESSFUL?              05280000
         BNO   ERROR06                NO-                               05290000
         L     R0,BUFFER              GET BUFFER ADDRESS                05300000
```

```
          SPACE 1                                                      05310000
          GET   ERRDCB                  RETRIEVE ERROR RECORD          05320000
          SPACE 1                                                      05330000
          CLOSE ((R12))                 CLOSE FILE                     05340000
          SPACE 1                                                      05350000
          LR    R1,R12                  COPY DCB ADDRESS               05360000
          SPACE 1                                                      05370000
          FREEPOOL (1)                  FREE QSAM BUFFERS              05380000
          SPACE 1                                                      05390000
          L     R6,BUFFER               GET ERROR BUFFER ADDRESS       05400000
          AH    R6,=H'4'                POINT PAST RDW                 05410000
          USING TRANREC,R6              GET ADDRESSABILITY             05420000
          MVC   STD,TRANSTND            SET STANDARD                   05430000
          MVC   RLS,TRANRLSE            SET RELEASE                    05440000
          MVC   VERS,TRANVERS           SET VERSION                    05450000
          MVC   AGCY,TRANAGCY           SET AGENCY                     05460000
          MVC   REAS,TRANREAS           SET REASON                     05470000
          MVC   LASTSEG,TRANLAST        SET LAST SEGMENT PROCESSED     05480000
          PACK  DBLWORD,TRANLAST        PACK LAST SEGMENT FIELD        05490000
          AP    DBLWORD,=P'1'           ADD ONE TO GET PROBLEM SGMT    05500000
          UNPK  NUMB,DBLWORD            GET IT BACK TO EBCDIC          05510000
          OI    NUMB+5,X'F0'            SET ZONE                       05520000
          MVC   SEP,TRANSDLM            SET SEGMENT DELIMETER          05530000
          SPACE 1                                                      05540000
*-------------------------------------------------------------------* 05550000
*         UPDATE LOG                                                * 05560000
*-------------------------------------------------------------------* 05570000
          SPACE 1                                                      05580000
          L     R2,BUFFER               GET BUFFER ADDRESS             05590000
          MVC   0(80,R2),=CL80' '       BLANK OUT BUFFER               05600000
          MVC   0(L'REAS,R2),REAS       COPY INTO BUFFER               05610000
          SPACE 1                                                      05620000
          PUT   LOGDCB,(R2)             WRITE RECORD                   05630000
          SPACE 1                                                      05640000
*-------------------------------------------------------------------* 05650000
*         ADD REASON TO TABLE                                       * 05660000
*-------------------------------------------------------------------* 05670000
          SPACE 1                                                      05680000
          L     R15,ISPLADDR            LOAD ADDRESS OF ISPLINK ROUTINE 05690000
          CALL  (15),(TBADD,VARTABLE),VL                               05700000
          SPACE 1                                                      05710000
          LTR   R15,R15                 ERROR?                         05720000
          BNZ   ERROR07                 YES-                           05730000
          SPACE 1                                                      05740000
*-------------------------------------------------------------------* 05750000
*         BUILD STORE FILE                                          * 05760000
*-------------------------------------------------------------------* 05770000
          SPACE 1                                                      05780000
          LA    R12,STOREDCB            POINT TO STORE DCB             05790000
          MVC   DDERR,DCBDDNAM          SET DDNAME IN ERROR MSG        05800000
          SPACE 1                                                      05810000
          OPEN  ((R12),(OUTPUT))        OPEN FILE                      05820000
          SPACE 1                                                      05830000
          TM    DCBOFLGS,DCBOFOPN       WAS OPEN SUCCESSFUL?           05840000
          BNO   ERROR06                 NO-                            05850000
          L     R2,BUFFER               GET BUFFER ADDRESS             05860000
          MVC   0(80,R2),=CL80' '       BLANK OUT BUFFER               05870000
          LA    R6,TRANSTOR             POINT TO TAG                   05880000
          USING TRANSTOR,R6             GET ADDRESSABILITY             05890000
STORCONT  DS    0H                                                     05900000
          CLC   TRANTAG(L'BEDZERO),BEDZERO END OF VALUES?              05910000
          BE    STORQUIT                YES-                           05920000
          MVC   0(L'TRANSTOR,R2),TRANSTOR COPY INTO BUFFER             05930000
          SPACE 1                                                      05940000
          PUT   STOREDCB,(R2)           WRITE RECORD                   05950000
          SPACE 1                                                      05960000
          LA    R6,L'TRANSTOR(R6)       INCREMENT POINTER              05970000
          B     STORCONT                CONTINUE                       05980000
STORQUIT  DS    0H                                                     05990000
          CLOSE ((R12))                 CLOSE IT                       06000000
          SPACE 1                                                      06010000
          LR    R1,R12                  COPY DCB ADDRESS               06020000
          SPACE 1                                                      06030000
          FREEPOOL (1)                  FREE QSAM BUFFERS              06040000
          SPACE 1                                                      06050000
*-------------------------------------------------------------------* 06060000
*         OPEN INPUT FILE                                           * 06070000
*-------------------------------------------------------------------* 06080000
          SPACE 1                                                      06090000
          LA    R12,INPDCB              POINT TO INPUT DCB             06100000
          MVC   DDERR,DCBDDNAM          SET DDNAME IN ERROR MSG        06110000
          SPACE 1                                                      06120000
          OPEN  ((R12),(INPUT))         OPEN FILE                      06130000
          SPACE 1                                                      06140000
          TM    DCBOFLGS,DCBOFOPN       WAS OPEN SUCCESSFUL?           06150000
          BNO   ERROR06                 NO-                            06160000
          SPACE 1                                                      06170000
*-------------------------------------------------------------------* 06180000
*         OPEN TEMPORARY FILE FOR OUTPUT                            * 06190000
*-------------------------------------------------------------------* 06200000
```

```
         SPACE 1                                                      06210000
         LA    R12,OUTDCB          POINT TO OUTPUT DCB                06220000
         MVC   DDERR,DCBDDNAM      SET DDNAME IN ERROR MSG            06230000
         SPACE 1                                                      06240000
         OPEN  ((R12),(OUTPUT))    OPEN FILE                          06250000
         SPACE 1                                                      06260000
         TM    DCBOFLGS,DCBOFOPN   WAS OPEN SUCCESSFUL?               06270000
         BNO   ERROR06             NO-                                06280000
         NI    BEDFLAG1,FF-INEOF-PERMIERR RESET FLAGS                 06290000
NEXTSGMT DS    0H                                                     06300000
         BAL   R9,FINDSGMT         YES- GO FIND SEGMENT               06310000
         B     ERROR08             ERROR-                             06320000
         B     CLOSEOUT            EOF-                               06330000
         L     R0,BUFFRDW          POINT TO SEGMENT                   06340000
         SPACE 1                                                      06350000
         PUT   OUTDCB              WRITE IT                           06360000
         SPACE 1                                                      06370000
         B     NEXTSGMT            NORMAL                             06380000
CLOSEOUT DS    0H                                                     06390000
         LA    R12,OUTDCB          POINT TO OUTPUT DCB                06400000
         SPACE 1                                                      06410000
         CLOSE ((R12))             CLOSE IT                           06420000
         SPACE 1                                                      06430000
         LR    R1,R12              COPY DCB ADDRESS                   06440000
         SPACE 1                                                      06450000
         FREEPOOL (1)              FREE QSAM BUFFERS                  06460000
         SPACE 1                                                      06470000
*--------------------------------------------------------------------* 06480000
*        BRING UP EDIT FACILITY FOR INPUT FILE                       * 06490000
*--------------------------------------------------------------------* 06500000
         SPACE 1                                                      06510000
EDITSGMT DS    0H                                                     06520000
         MVC   TDSN,DSNS           SET SEGMENT FILE NAME?             06530000
         LA    R1,TDSN             POINT TO DSN                       06540000
         B     *+8                                                    06550000
IDSNLOOP DS    0H                                                     06560000
         LA    R1.1(R1)            POINT TO NEXT BYTE                 06570000
         CLI   0(R1),C' '          IS THIS A BLANK DELIMETER          06580000
         BNE   IDSNLOOP            NO- CONTINUE                       06590000
         MVI   0(R1),C'*'          MOVE IN ASTERISK                   06600000
SKIPTDLM DS    0H                                                     06610000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE    06620000
         CALL  (15),(EDIT,TEMPDSN,,,PANEL2),VL                        06630000
         SPACE 1                                                      06640000
         CH    R15,=H'4'           ABNORMAL RETURN?                   06650000
         BH    ERROR09             YES-                               06660000
         BE    BYPASSX             NORMAL RETURN(NOSAVE)              06670000
         MVC   IDCB,=CL8'SGMTFILE' SET INPUT DDNAME FOR REBLOCK       06680000
         B     TRANLOOP             GO TRANSLATE AGAIN                06690000
BYPASST  DS    0H                                                     06700000
         SPACE 1                                                      06710000
         CLOSE ((R12))              CLOSE FILE                        06720000
         SPACE 1                                                      06730000
         LR    R1,R12               COPY DCB ADDRESS                  06740000
         SPACE 1                                                      06750000
         FREEPOOL (1)               FREE QSAM BUFFERS                 06760000
         SPACE 1                                                      06770000
         MVC   MSGID,=CL8'EDIL050'  SET MSGID                         06780000
         BAL   R9,SETMSGX           DISPLAY MSG                       06790000
         B     DISPPRIM             DISPLAY RESULTS                   06800000
BYPASSX  DS    0H                                                     06810000
         MVC   MSGID,=CL8'EDIL063'  SET MSGID                         06820000
         BAL   R9,SETMSGX           DISPLAY MSG                       06830000
         B     DISPPRIM             DISPLAY RESULTS                   06840000
         SPACE 1                                                      06850000
*--------------------------------------------------------------------* 06860000
*        UNALLOCATE ALL FILES USED                                   * 06870000
*--------------------------------------------------------------------* 06880000
         SPACE 1                                                      06890000
ENDSESS  DS    0H                                                     06900000
         ESTAE 0                   CANCEL ESTAE                       06910000
         SPACE 1                                                      06920000
         LA    R1,DSUNALOC         POINT TO TEXT UNIT LIST            06930000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK   06940000
         MVI   DYNRB+S99VERB-S99RB,S99VRBUN SET TO UNALLOCATE         06950000
         LA    R2,SOLIST           POINT TO SYSOUT LIST               06960000
UNALSYSO DS    0H                                                     06970000
         CLI   0(R2),C' '          END OF LIST?                       06980000
         BE    UNALDSO             YES-                               06990000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME           07000000
         BAL   R9,DYNA             GO UNALLOC                         07010000
         B     *+4                 ERROR ON UNALLOCATION              07020000
         LA    R2,8(R2)            POINT TO NEXT DDNAME               07030000
         B     UNALSYSO            CONTINUE                           07040000
UNALDSO  DS    0H                                                     07050000
         LA    R2,DSLISTO          POINT TO DS LIST                   07060000
UNALDSXO DS    0H                                                     07070000
         CLI   0(R2),C' '          END OF LIST?                       07080000
         BE    UNALDSS             YES-                               07090000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME           07100000
         BAL   R9,DYNA             GO UNALLOCATE FILE                 07110000
         B     *+4                 ERROR ON UNALLOCATION              07120000
         LA    R2,L'DCBXNEW(R2)    POINT TO NEXT DDNAME               07130000
         B     UNALDSXO            CONTINUE                           07140000
         SPACE 1                                                      07150000
UNALDSS  DS    0H                                                     07160000
         LA    R2,DSLISTS          POINT TO DS LIST                   07170000
UNALDSXS DS    0H                                                     07180000
         CLI   0(R2),C' '          END OF LIST?                       07190000
         BE    CLOSTABL            YES-                               07200000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME           07210000
         BAL   R9,DYNA             GO UNALLOCATE FILE                 07220000
         B     *+4                 ERROR ON UNALLOCATION              07230000
         LA    R2,L'DCBXNEW(R2)    POINT TO NEXT DDNAME               07240000
         B     UNALDSXS            CONTINUE                           07250000
         SPACE 1                                                      07260000
CLOSTABL DS    0H                                                     07270000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE    07280000
         CALL  (15),(TBCLOSE,VARTABLE),VL                             07290000
         SPACE 1                                                      07300000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE    07310000
         CALL  (15),(VPUT,SAVLIST,PROFILE),VL                         07320000
         SPACE 1                                                      07330000
*--------------------------------------------------------------------* 07340000
*        RESTORE REGISTERS AND RETURN TO CALLER                      * 07350000
*--------------------------------------------------------------------* 07360000
         SPACE 1                                                      07370000
RETURNX  DS    0H                                                     07380000
         L     R13,4(,R13)         RESTORE CALLERS SAVE AREA          07390000
         L     R14,12(,R13)                  RETURN ADDRESS           07400000
         LM    R0,R12,20(R13)                REGISTERS                07410000
         BR    R14                                                    07420000
         SPACE 1                                                      07430000
*--------------------------------------------------------------------* 07440000
*        THIS SUBROUTINE WILL UN/ALLOCATE THE FILES NEEDED.          * 07450000
*        RETURN TO THE CALLER WITH A DISPLACEMENT DEPENDING ON       * 07460000
*        THE RETURN CODE IN R15.                                     * 07470000
*                                                                    * 07480000
*        ON ENTRY: R9 => RETURN ADDRESS                              * 07490000
*                                                                    * 07500000
*        RETURNS : 0(R9) => ERROR RETURN                             * 07510000
*                  4(R9) => NORMAL RETURN                            * 07520000
*                                                                    * 07530000
*--------------------------------------------------------------------* 07540000
         SPACE 1                                                      07550000
DYNA     DS    0H                                                     07560000
         LA    R1,DYNRBP           SET UP REQUEST BLOCK CHAIN         07570000
         SPACE 1                                                      07580000
         DYNALLOC ,                GO ALLOCATE IT                     07590000
         SPACE 1                                                      07600000
         LTR   R15,R15             ALLOCATION SUCCESSFUL?             07610000
         BNZ   0(R9)               NO- TAKE EXIT RETURN               07620000
         B     4(R9)               TAKE NORMAL RETURN                 07630000
         SPACE 1                                                      07640000
*--------------------------------------------------------------------* 07650000
*        LOG MESSAGES                                                * 07660000
*--------------------------------------------------------------------* 07670000
         SPACE 1                                                      07680000
LOGIT    DS    0H                                                     07690000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE    07700000
         CALL  (15),(LOG,MSGID),VL LOG IT                             07710000
         SPACE 1                                                      07720000
         BR    R9                  RETURN                             07730000
         SPACE 1                                                      07740000
*--------------------------------------------------------------------* 07750000
*        SET MESSAGES                                                * 07760000
*--------------------------------------------------------------------* 07770000
         SPACE 1                                                      07780000
SETMSGX  DS    0H                                                     07790000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE    07800000
         CALL  (15),(SETMSG,MSGID),VL LOG IT                          07810000
         SPACE 1                                                      07820000
         BR    R9                  RETURN                             07830000
         SPACE 1                                                      07840000
*--------------------------------------------------------------------* 07850000
*        ERROR ROUTINES                                              * 07860000
*--------------------------------------------------------------------* 07870000
         SPACE 1                                                      07880000
ERROR01  DS    0H                  TABLE CREATE ERROR                 07890000
         ST    R15,RTNCODE         SAVE RETURN CODE                   07900000
         MVC   MSGID,=CL8'EDIL051' SET MSG ID FAILURE                 07910000
         B     ERROR                                                  07920000
         SPACE 1                                                      07930000
ERROR02  DS    0H                  ALLOCATION FAILURE                 07940000
         ST    R15,RTNCODE         SAVE RETURN CODE                   07950000
         MVC   REEZCODE,DYNRB+S99ERROR-S99RB SET REASON CODE          07960000
         MVC   DDERR,TXTDD+S99TUPAR-S99TUNIT SET DDNAME IN MSG        07970000
         MVC   MSGID,=CL8'EDIL052' SET MSG ID FAILURE                 07980000
         B     ERROR                                                  07990000
         SPACE 1                                                      08000000
ERROR03  DS    0H                  ALLOCATION FAILURE                 08010000
         ST    R15,RTNCODE         SAVE RETURN CODE                   08020000
         MVC   REEZCODE,DYNRB+S99ERROR-S99RB SET REASON CODE            08030000
         MVC   DDERR,TXTDD+S99TUPAR-S99TUNIT SET DDNAME IN MSG          08040000
         MVC   MSGID,=CL8'EDIL053' SET MSG ID FAILURE                   08050000
         B     ERROR                                                    08060000
         SPACE 1                                                        08070000
ERROR04  DS    0H                      REBLOCK ERROR                    08080000
         ST    R15,RTNCODE             SAVE RETURN CODE                 08090000
         MVC   MSGID,=CL8'EDIL054' SET MSG ID FAILURE                   08100000
         B     ERROR                                                    08110000
         SPACE 1                                                        08120000
ERROR05  DS    0H                      ATTACH FAILURE                   08130000
         ST    R15,RTNCODE             SAVE RETURN CODE                 08140000
         MVC   MSGID,=CL8'EDIL055' SET MSG ID FAILURE                   08150000
         B     ERROR                                                    08160000
         SPACE 1                                                        08170000
ERROR06  DS    0H                      OPEN FAILURE                     08180000
         MVC   MSGID,=CL8'EDIL056' SET MSG ID FAILURE                   08190000
         B     ERROR                                                    08200000
         SPACE 1                                                        08210000
ERROR07  DS    0H                      TBADD FAILURE                    08220000
         ST    R15,RTNCODE             SAVE RETURN CODE                 08230000
         MVC   MSGID,=CL8'EDIL057' SET MSG ID FAILURE                   08240000
         B     ERROR                                                    08250000
         SPACE 1                                                        08260000
ERROR08  DS    0H                      PARSE SEGMENT                    08270000
         LA    R12,INPDCB              POINT TO INPUTDCB                08280000
         SPACE 1                                                        08290000
         CLOSE ((R12))                   CLOSE IT                       08300000
         SPACE 1                                                        08310000
         LR    R1,R12                    COPY DCB ADDRESS               08320000
         SPACE 1                                                        08330000
         FREEPOOL (1)                    FREE QSAM BUFFERS              08340000
         SPACE 1                                                        08350000
         LA    R12,OUTDCB                POINT TO OUTPUT DCB            08360000
         SPACE 1                                                        08370000
         CLOSE ((R12))                   CLOSE IT                       08380000
         SPACE 1                                                        08390000
         LR    R1,R12                    COPY DCB ADDRESS               08400000
         SPACE 1                                                        08410000
         FREEPOOL (1)                    FREE QSAM BUFFERS              08420000
         SPACE 1                                                        08430000
         MVC   MSGID,=CL8'EDIL058' SET MSG ID FAILURE                   08440000
         B     ERROR                                                    08450000
         SPACE 1                                                        08460000
ERROR09  DS    0H                      EDIT ERROR                       08470000
         ST    R15,RTNCODE             SAVE RETURN CODE                 08480000
         MVC   MSGID,=CL8'EDIL059' SET MSG ID FAILURE                   08490000
         B     ERROR                                                    08500000
         SPACE 1                                                        08510000
ERROR10  DS    0H                      WORK FILE FORMAT ERROR           08520000
         CLOSE ((R12))                 CLOSE FILE                       08530000
         SPACE 1                                                        08540000
         MVC   MSGID,=CL8'EDIL060' SET MSG ID FAILURE                   08550000
         B     ERROR                                                    08560000
         SPACE 1                                                        08570000
ERROR11  DS    0H                      SEGMENT FILE FORMAT ERROR        08580000
         SPACE 1                                                        08590000
         CLOSE ((R12))                 CLOSE FILE                       08600000
         SPACE 1                                                        08610000
         MVC   MSGID,=CL8'EDIL061' SET MSG ID FAILURE                   08620000
         B     ERROR                                                    08630000
         SPACE 1                                                        08640000
ERROR12  DS    0H                      SYSTEM ABEND                     08650000
         MVC   MSGID,=CL8'EDIL062' SET MSG ID FAILURE                   08660000
         B     ERROR                                                    08670000
         SPACE 1                                                        08680000
ERROR    DS    0H                      EDIT ERROR                       08690000
         BAL   R9,LOGIT                GO LOG IT                        08700000
         BAL   R9,SETMSGX              GO DISPLAY MSG                   08710000
         TM    FLAG1,INIT              ARE WE INITIALIZING?             08720000
         BO    ENDSESS                 YES- END SESSION                 08730000
         B     DISPPRIM                NO- DISPLAY PANEL                08740000
         SPACE 1                                                        08750000
*--------------------------------------------------------------------* 08760000
*                                                                    * 08770000
*        THE FOLLOWING ROUTINE RETRIEVES THE NEXT LOGICAL RECORD     * 08780000
*        FROM A DASD DATASET.                                        * 08790000
*                                                                    * 08800000
*        INPUTS:                                                     * 08810000
*                                                                    * 08820000
*        R5 -  RETURN ADDRESS                                        * 08830000
*                                                                    * 08840000
*        OUTPUTS:                                                    * 08850000
*                                                                    * 08860000
*        R0  - INPUT RECORD LENGTH                                   * 08870000
*        R1  - INPUT RECORD ADDRESS                                  * 08880000
*                                                                    * 08890000
*--------------------------------------------------------------------* 08900000
         SPACE 2                                                        08910000
READFILE DS    0H                      ENTRY POINT IDENTIFIER           08920000
         STM   R14,R1,SAVEREGS         SAVE REGISTERS                   08930000
         LA    R12,INPDCB                                               08940000
         TM    BEDFLAG1,INEOF+PERMIERR  EOF PREVIOUSLY REACHED?      08950000
         BC    NALLOFF,READEOF    YES-                                08960000
         LA    R0,READEOF         POINT TO EOF EXIT ROUTINE           08970000
         STCM  R0,B'0111',DCBEODA SAVE EODAD ADDR                     08980000
         LA    R0,READSYN         POINT TO SYNAD EXIT ROUTINE         08990000
         STCM  R0,B'0111',DCBSYNA SAVE SYNAD ADDRESS                  09000000
         SPACE 1                                                      09010000
         GET   INPDCB             RETRIEVE NEXT RECORD                09020000
         SPACE 1                                                      09030000
         TM    DCBRECFM,DCBRECU   RECFM U?                            09040000
         BC    ALLON,RECU         YES-                                09050000
         TM    DCBRECFM,DC3RECV   RECFM V?                            09060000
         BC    ALLON,RECV         YES-                                09070000
         SPACE 1                                                      09080000
*        UNDEFINED OR FIXED LENGTH RECORD FORMAT                      09090000
         SPACE 1                                                      09100000
RECU     DS    0H                                                     09110000
         LH    R0,DCBLRECL        LOAD RECORD LENGTH READ             09120000
         LTR   R0,R0              UNBLOCKED RECORDS?                  09130000
         BC    NZERO,READF200     NO-                                 09140000
         LH    R0,DCBBLKSI        RETRIEVE BLOCKSIZE                  09150000
         B     READF200           RETURN                              09160000
         SPACE 1                                                      09170000
*        VARIABLE LENGTH RECORD FORMAT                                09180000
         SPACE 1                                                      09190000
RECV     DS    0H                                                     09200000
         LH    R0,0(,R1)          RETRIEVE VARIABLE RECORD LENGTH     09210000
         LA    R1,4(,R1)          POINT TO DATA PORTION OF RECORD     09220000
         S     R0,=F'4'           ADJUST LENGTH FOR RDW               09230000
         B     READF200           RETURN                              09240000
READEOF  DS    0H                                                     09250000
         SLR   R0,R0              CLEAR READ LENGTH                   09260000
         OI    BEDFLAG1,INEOF     SET EOF ENCOUNTERED                 09270000
READCLS  DS    0H                                                     09280000
         TM    DCBOFLGS,DCBOFOPN  IS DATA SET OPEN?                   09290000
         BC    ALLOFF,READF200    NO-                                 09300000
         SPACE 1                                                      09310000
         CLOSE ((R12))            CLOSE IT                            09320000
         SPACE 1                                                      09330000
         LR    R1,R12              COPY DCB ADDRESS                   09340000
         SPACE 1                                                      09350000
         FREEPOOL (1)              FREE QSAM BUFFERS                  09360000
         SPACE 1                                                      09370000
         SLR   R0,R0              SET LENGTH                          09380000
         B     READF300                                               09390000
READSYN  DS    0H                                                     09400000
         SYNADAF ACSMETH=QSAM     REQUEST FORMATTED MESSAGE           09410000
         SPACE 1                                                      09420000
*        MVC   SYNADTXT,50(R1)    COPY MESSAGE TEXT                   09430000
         SPACE 1                                                      09440000
*        COMMSGS TEXT=MSG230      NOTIFY OPERATOR                     09450000
         SPACE 1                                                      09460000
         SYNADRLS                 RELEASE BUFFERS                     09470000
         SPACE 1                                                      09480000
         OI    BEDFLAG1,PERMIERR  SET PERMANENT INPUT ERROR           09490000
         B     READCLS            GO CLOSE IF NECESSARY               09500000
         SPACE 1                                                      09510000
*-------------------------------------------------------------------* 09520000
*        NORMAL RETURN                                              * 09530000
*-------------------------------------------------------------------* 09540000
         SPACE 1                                                      09550000
READF200 DS    0H                                                     09560000
         ST    R1.MOVESTAT+8      SAVE FOR SEGMENT ROUTINE            09570000
         ST    R0.MOVESTAT+12     SAVE                                09580000
READF300 DS    0H                                                     09590000
         LM    R14.R1.SAVEREGS    RESTORE REGISTERS                   09600000
         BR    R5                                                     09610000
         SPACE 2                                                      09620000
*---------------------------------------------------------*           09630000
*        FIND SEGMENT ROUTINE                             *           09640000
*                                                         *           09650000
*        SUBROUTINE TO PROCESS THE HEADER RECORD AND PICK *           09660000
*        OUT THE DATA ELEMENT AND SEGMENT SEPERATORS TO   *           09670000
*        DYNAMICALLY MAKE TO TRANSLATE TABLES.            *           09680000
*                                                         *           09690000
*        INPUT  - R9   - RETURN ADDRESS                   *           09700000
*         MOVESTAT+ 0 - ADDRESS OF SEGMENT BUILD AREA     *           09710000
*         MOVESTAT+ 4 - LENGTH OF SEGMENT BUILD AREA      *           09720000
*         MOVESTAT+ 8 - ADDRESS OF ANSI/UNJEDI RECORD     *           09730000
*         MOVESTAT+12 - LENGTH OF ANSI/UNJEDI RECORD      *           09740000
*                                                         *           09750000
*---------------------------------------------------------*           09760000
         SPACE 3                                                      09770000
FINDSGMT DS    0H                                                     09780000
         XC    MOVESTAT(8),MOVESTAT RESET STATS OF BUILD AREA         09790000
         LM    R14,R15,MOVESTAT+8 GET WHERE LEFT OFF IN RECORD        09800000
         LTR   R15,R15            ANY BYTES LEFT TO PROCESS?          09810000
         BNP   FNDHSTRT           NO-                                 09820000
         BCTR  R15,0              YES- GET EXECUTABLE LENGTH          09830000
         LA    R5,TABLE01         GET TABLE ADDRESS                   09840000
         EX    R15,ENDALPHA       FIND SEGMENT ID                     09850000
         BZ    FNDS0080                NOT FOUND
         LA    R15,1(R15,R14)          POINT PAST LAST BYTE OF RECORD
         LR    R14,R1                  COPY ADDRESS OF SEGMENT ID
         SR    R15,R14                 GET LENGTH LEFT
FNDS0070 DS    0H
         STM   R14,R15,MOVESTAT+8 RESET STATS
         B     FNDHSTRT                CONTINUE
FNDS0080 DS    0H
         LA    R15,0                   SET ZERO BYTES LEFT OF THIS RECORD
         B     FNDS0070                CONTINUE
FNDALPHA TRT   0(0,R14),0(R5)
FNDHSTRT DS    0H
         ICM   R0,B'1111',MOVESTAT+12 FINISHED READING RECORD?
         BNZ   FNDS0090                 NO-
         SPACE 1
         BAL   R5,READFILE              RETRIEVE NEXT INPUT RECORD
         TM    BEDFLAG1,INEOF           EOF REACHED?
         BO    FNDH1300                 YES-
         SPACE 1
         LM    R14,R15,MOVESTAT+8       GET RECORD ADDRESS/LENGTH
FNDS0090 DS    0H
         ICM   R0,B'1111',MOVESTAT+4 FINISHED BUILDING RECORD?
         BNZ   FNDS0100                 NO-
         L     R1,BUFFER                NO- GET ADDRESS OF BUILD AREA
         ST    R1,MOVESTAT              SAVE IT
         LA    R1,L'ERRBUFF             GET LENGTH OF BUILD AREA
         ST    R1,MOVESTAT+4            SAVE IT
FNDS0100 DS    0H
         CLC   SEP,0(R14)               NO- SEPARATOR?
         BE    FNDH0900                 YES-
FNDS0500 DS    0H
         LA    R14,1(R14)               NO- POINT TO NEXT BYTE
         BCT   R15,FNDS0100             PROCESS REST OF RECORD
FNDS0600 DS    0H
         S     R1,MOVESTAT+12           UPDATE DISPLACEMENT OF SEPARATOR
         STH   R1,ELMTCTR               SAVE IT
         LM    R14,R1,MOVESTAT          GET MOVE STATS
         CR    R15,R1                   RECV LGTH > SEND LGTH?
         BNH   FNDHERR                  NO- ERROR
         LR    R15,R1                   SET RECV LGTH TO SEND LGTH
         MVCL  R14,R0                   MOVE TO RECORD BUILD AREA
         L     R15,MOVESTAT+4           GET MAX LGTH OF BUILD AREA
         S     R15,MOVESTAT+12          MINUS ACTUAL BYTES MOVE
         STM   R14,R1,MOVESTAT          SAVE MOVE STAT
         B     FNDHSTRT                 GO READ ANOTHER RECORD
FNDH0900 DS    0H
         S     R14,MOVESTAT+8           CALC LGTH OF REST OF SEGMENT
         LA    R1,1(R14)                ADD ONE FOR SEGMENT
         B     FNDH1000                 GO MOVE TO BUILD AREA
FNDH1000 DS    0H
         LM    R14,R0,MOVESTAT          SET UP FOR MOVE
         CR    R15,R1                   RECV LGTH > SEND LGTH?
         BH    FNDH1100                 YES-
         LR    R1,R15                   NO- SET SEND LGTH TO RECV LGTH
         B     FNDH1200
FNDH1100 DS    0H
         LR    R15,R1                   SET RECV LGTH TO SEND LGTH
FNDH1200 DS    0H
         LTR   R15,R15                  LENGTH POSITIVE!
         BNE   FNDH1400                 NO-
         CH    R15,=H'256'              YES- TOO BIG?
         BH    FNDH1400                 YES-
         MVCL  R14,R0                   MOVE TO RECORD BUILD AREA
         LR    R15,R0                   GET ADDR PAST SEPERATOR
         S     R15,MOVESTAT+8           CALC BYTES MOVED
         L     R1,MOVESTAT+12           GET TOTAL BYTES IN RECORD
         SR    R1,R15                   CALC RESIDUAL BYTE COUNT
         STM   R0,R1,MOVESTAT+8         SAVE FOR LATER
         L     R15,BUFFER               GET BEGINNING OF RECORD
         SR    R14,R15                  CALC LENGTH OF RECORD
         LA    R14,4(R14)               ADD LENGTH OF RDW
         L     R15,BUFFRDW              GET ADDRESS OF RDW
         STCM  R14,B'0011',0(R15)       SET RDW
         B     FNDHNORM                 RETURN
FNDH1300 DS    0H
         CLC   MOVESTAT+4(4),BEDZERO STILL BUILDING A SEGMENT?
         BE    FNDHEOF                  NO-
         B     FNDHERR                  YES- END OF SEGMENT MISSING
FNDH1400 DS    0H
         STM   R14,R1,MOVESTAT          SAVE REGISTERS
         ABEND 8,DUMP
         SPACE 1
*----------------------------------------------------------------*
*        +0    ERROR RETURN                                      *
*----------------------------------------------------------------*
         SPACE 1
FNDHERR  DS    0H
         B     0(R9)
         SPACE 1
*----------------------------------------------------------------*
*        +4    EOF RETURN                                        *
*----------------------------------------------------------------*
         SPACE 1
FNDHEOF  DS    0H
         B     4(R9)
         SPACE 1
*----------------------------------------------------------------------*
*        +8     NORMAL RETURN                                          *
*----------------------------------------------------------------------*
         SPACE 1
FNDHNORM DS     0H
         B      8(R9)
         SPACE 1
TABLE01  SCNTBL CHARSET=ALPHA,FUNC=LOCATE
         SPACE 1
TBABEND  DS     0H
         PUSH   USING
         DROP
         USING *,R15
         CH     R0,=H'12'                  SDWA PRESENT?
         BNE    AAABEND1                   YES-
*         RETURN TO RTM, ATTEMPTING RECOVERY:
         SPACE 1
         LA     R0,AAABEND2                POINT TO REINSTATEMENT ROUTINE
         LA     R15,4                      INDICATE TASK IS TO BE REINSTATED
         BR     R14                        RETURN TO RTM
         SPACE 1
AAABEND1 DS     0H
         STM    R14,R12,12(R13)            SAVE REGS
         LR     R10,R15                    SET BASE
         USING TBABEND,R10
         DROP   R15
         LR     R4,R1                      SDWA ADR
         USING SDWA,R4
         L      R2,SDWAPARM                GET BASE REGISTER
         USING EDITSBED,R2                 GET ADDRESSABILITY
         LA     R3,2048(,R2)               SET 2ND BASE REG
         LA     R3,2048(,R3)
         USING EDITSBED+4096,R3
         ICM    R1,B'0111',SDWACMPC  GET COMPLETION CODE
         DROP   R4
         SRL    R1,12
         N      R1,=X'00000FFF'
         ST     R1,RTNCODE                   SAVE IT
         SPACE 1
         SETRP  REGS=(14,12),                                          +
                RC=4,RETADDR=AAABEND2,FRESDWA=YES,WKAREA=(4)
         SPACE 1
         POP    USING
         SPACE 2
AAABEND2 DS     0H
         LR     R10,R1                       SET BASE REGISTER
         LA     R11,2048(,R10)               SET 2ND BASE REG
         LA     R11,2048(,R11)
         L      R2,=A(ERROR12)               POINT TO RESTART ADDRESS
         BR     R2                           GO TO IT
         SPACE 1
         LTORG
         EJECT
*----------------------------------------------------------------------*
*        MISC DATA AREA                                                *
*----------------------------------------------------------------------*
         SPACE 1
ZUSER    DC     CL8' '
XLATOR   DC     A(0)
SAVEAREA DC     18F'0'
SAVEREGS DC     18F'0'
DBLWORD  DC     D'0'
BUFFRDW  DC     A(ERRRDW)                  POINT TO RDW
BUFFER   DC     A(ERRBUFF)                 POINTER TO ERROR BUFFER
MSGID    DC     CL8' '                     MESSAGE ID
DCBNAMES DC     AL2(L'IDCB+L'ODCB+L'EDCB)  LENGTH OF DDNAMES
IDCB     DC     CL8' '                     INPUT DCB FOR REBLOCK
ODCB     DC     CL8' '                     OUTPUT DCB FOR REBLOCK
EDCB     DC     CL8'REBLKERR'              SYSPRINT DCB FOR REBLOCK
ISPLADDR DC     A(0)
TEMPDSN  DC     C' '
IDSN     DC     CL44' '
MOVESTAT DC     4F'0'
BEDZERO  DC     D'0'                       CONSTANT ZEROS
BEDBLANK DC     CL8' '                     CONSTANT BLANK
ELMTCIR  DC     H'0'
BEDFLAG1 DC     X'00'
INEOF    EQU    X'80'                      END OF FILE
PERMIERR EQU    X'40'                      ERROR READING INPUT FILE
SEP      DC     X'00'                      SEGMENT SEPARATOR
FLAG1    DC     X'00'                      MISC FLAG
INIT     EQU    X'80'                      INITIALIZING
         SPACE 1
*----------------------------------------------------------------------*
*        DYNAMIC ALLOCATION CONTROL BLOCKS                             *
*----------------------------------------------------------------------*
         SPACE 1
DYNRBP   DC     0F'0',X'80',AL3(DYNRB)
DYNRB    DC     XL(S99RBEND-S99RB)'00'
         ORG    DYNRB+S99RBLN-S99RB
         DC     AL1(S99RBEND-S99RB)
         ORG   DYNRB+S99VERB-S99RB                                      11730000
         DC    AL1(S99VRBAL)                                            11740000
         ORG   DYNRB+S99FLAG1-S99RB                                     11750000
         DC    AL1(S99NOCNV)                                            11760000
         ORG                                                            11770000
SOALLOC  DC    A(TXTDD),AL1(128),AL3(TXTSO)                             11780000
DSCONCLS DC    AL1(128),AL3(TXTCONC)                                    11790000
DSALLOCS DC    A(TXTDD,TXTDSN),AL1(128),AL3(TXTSHR)                     11800000
DSALLOCO DC    A(TXTDD,TXTDSN),AL1(128),AL3(TXTOLD)                     11810000
DSUNALOC DC    AL1(128),AL3(TXTDD)                                      11820000
DSUNCONC DC    AL1(128),AL3(TXTDDU)                                     11830000
DSALLOCN DC    A(TXTDD)                                                 11840000
         DC    A(TXTDSN)                                                11850000
         DC    A(TXTNEW)                                                11860000
         DC    A(TXTNDISP)                                              11870000
         DC    A(TXTCDISP)                                              11880000
         DC    A(TXTUNITX)                                              11890000
         DC    A(TXTTRK)                                                11900000
         DC    A(TXTPRIME)                                              11910000
         DC    A(TXTSECND)                                              11920000
         DC    A(TXTRECFM)                                              11930000
         DC    A(TXTLRECL)                                              11940000
         DC    AL1(128),AL3(TXTBLKSZ)                                   11950000
TXTCONC  DC    AL2(DCCDDNAM,2,8),CL8' ',AL2(8)                          11960000
TXTCONCX DC    CL8' '                                                   11970000
TXTTRK   DC    AL2(DALTRK,0)                                            11980000
TXTNEW   DC    AL2(DALSTATS,1,1),X'04'                                  11990000
TXTNDISP DC    AL2(DALNDISP,1,1),X'02'                                  12000000
TXTCDISP DC    AL2(DALCDISP,1,1),X'04'                                  12010000
TXTRECFM DC    AL2(DALRECFM,1,1),X'40'                                  12020000
TXTLRECL DC    AL2(DALLRECL,1,2),X'0202'                                12030000
TXTBLKSZ DC    AL2(DALBLKSZ,1,2),X'3C40'                                12040000
TXTPRIME DC    AL2(DALPRIME,1,3),X'000096'                              12050000
TXTSECND DC    AL2(DALSECND,1,3),X'000000'                              12060000
TXTUNITX DC    AL2(DALUNIT,1,5),CL5'SPACE'                              12070000
TXTOLD   DC    AL2(DALSTATS,1,1),X'01'                                  12080000
TXTDD    DC    AL2(DALDDNAM,1,8),CL8' '                                 12090000
TXTDDU   DC    AL2(DDCDDNAM,1,8),CL8' '                                 12100000
TXTDSN   DC    AL2(DALDSNAM,1,44),CL44' '                               12110000
TXTSO    DC    AL2(DALSYSOU,1,1),C'W'                                   12120000
TXTSHR   DC    AL2(DALSTATS,1,1),X'08'                                  12130000
         SPACE 1                                                        12140000
*---------------------------------------------------------------------* 12150000
*        SYSOUT DDNAME LIST                                           * 12160000
*---------------------------------------------------------------------* 12170000
         SPACE 1                                                        12180000
SOLIST   DC     CL8'MONITOR'                                            12190000
         DC     CL8'MYOUT'                                              12200000
         DC     CL8'REPORT'                                             12210000
         DC     CL8'SYSOUT'                                             12220000
         DC     CL8'MPT'                                                12230000
         DC     CL8'SBG'                                                12240000
         DC     CL8'EEO'                                                12250000
         DC     CL8'JSP'                                                12260000
         DC     CL8'REBLKERR'                                           12270000
         DC     CL8' '                                                  12280000
         SPACE 1                                                        12290000
*---------------------------------------------------------------------* 12300000
*        DDNAME-DSNAME LIST FOR DISP=SHR                              * 12310000
*---------------------------------------------------------------------* 12320000
         SPACE 1                                                        12330000
DSLIST   DC     CL8'ANSI'                                               12340000
DSNAT    DC     CL44' '                                                 12350000
         DC     CL8'ANSIP'                                              12360000
DSNAP    DC     CL44' '                                                 12370000
         DC     CL8'APPLOUT'                                            12380000
DSNXP    DC     CL44' '                                                 12390000
         DC     CL8'APPLOUTX'                                           12400000
DSNXT    DC     CL44' '                                                 12410000
         DC     CL8'CNT'                                                12420000
DSNCT    DC     CL44' '                                                 12430000
         DC     CL8'CNTP'                                               12440000
DSNCP    DC     CL44' '                                                 12450000
         DC     CL8'IDS'                                                12460000
DSNIT    DC     CL44' '                                                 12470000
         DC     CL8'IDSP'                                               12480000
DSNIP    DC     CL44' '                                                 12490000
         DC     CL8'COND'                                               12500000
DSNOT    DC     CL44' '                                                 12510000
         DC     CL8'CONDX'                                              12520000
DSNOP    DC     CL44' '                                                 12530000
         DC     CL8'VSAM',CL44'VAAEX.EDIS.D.TEST.RECOVERY'              12540000
         DC     CL8' '                                                  12550000
         SPACE 1                                                        12560000
*---------------------------------------------------------------------* 12570000
*        DDNAME-ALLOC LIST FOR DISP=SHR                               * 12580000
*---------------------------------------------------------------------* 12590000
         SPACE 1                                                        12600000
DSLISTS  DC     CL8'SONLG',X'90',X'0050',X'1810',X'000005'              12610000
         DC     CL8' '                                                  12620000
         SPACE 1                                                        12630000
*---------------------------------------------------------------------* 12640000
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*         DDNAME-ALLOC LIST FOR DISP=OLD                                *
*-----------------------------------------------------------------------*
          SPACE 1
DSLISTO   DC    CL8'FAOUT',X'50',X'0800',X'5004',X'000032'
          DC    CL8'OUTPUT',X'50',X'0800',X'5004',X'000064'
          DC    CL8'TESTBED2',X'50',X'0C37',X'61BC',X'000005'
          DC    CL8'TESTBED',X'50',X'0800',X'5004',X'000001'
          DC    CL8'REJECT',X'50',X'0804',X'5028',X'000028'
          DC    CL8'RECOV',X'50',X'0804',X'5028',X'000028'
          DC    CL8'STORE',X'90',X'0050',X'1810',X'000010'
          DC    CL8' '
          SPACE 1
*-----------------------------------------------------------------------*
*         DEFINITION OF PROGRAM STORAGE FOR PANEL VARIABLES             *
*-----------------------------------------------------------------------*
          SPACE 1
DSN       DC    CL44' '
DSNW      DC    CL44' '
DSNS      DC    CL44' '
DSNL      DC    CL44' '
STD       DC    CL8' '
RLS       DC    CL5' '
VERS      DC    CL12' '
AGCY      DC    CL2' '
REAS      DC    CL71' '
LASTSEG   DC    CL6' '
NUMB      DC    CL6' '
TRANDATA  EQU   STD,*-STD,C'C'
          DS    0F
RTNCODE   DC    CL4' '
REEZCODE  DC    CL2' '
DDERR     DC    CL8' '
          SPACE 1
*-----------------------------------------------------------------------*
*         DEFINITION OF ISPF SERVICE REQUESTS                           *
*-----------------------------------------------------------------------*
          SPACE 1
DISPLAY   DC    CL8'DISPLAY'
EDIT      DC    CL8'EDIT'
PRIMARY   DC    CL8'EDITB'
PANEL2    DC    CL8'EDITB1'
PANEL3    DC    CL8'EDITB2'
CONTROL   DC    C'CONTROL'
SELECT    DC    C'SELECT'
ERRORS    DC    C'ERRORS'
RETURN    DC    C'RETURN'
VDEFINE   DC    CL8'VDEFINE'
VGET      DC    CL8'VGET'
VPUT      DC    CL8'VPUT'
PROFILE   DC    CL8'PROFILE'
SHARED    DC    CL8'SHARED'
CHAR      DC    CL8'CHAR'
HEX       DC    CL8'HEX'
TBCREATE  DC    CL8'TBCREATE'
TBDISPL   DC    CL8'TBDISPL'
TBADD     DC    CL8'TBADD'
TBTOP     DC    CL8'TBTOP'
TBSARG    DC    CL8'TBSARG'
TBCLOSE   DC    CL8'TBCLOSE'
LOG       DC    CL8'LOG'
SETMSG    DC    CL8'SETMSG'
VARTABLE  DC    CL8'VARTABLE'
NOWRITE   DC    CL8'NOWRITE'
VARLIST   DC    C'(TBNUMB TBREAS)'
SAVLIST   DC    C'(TBDSN TBDSNW TBDSNS TBDSNAT TBDSNAP TBDSNCT TBDSNCP TX
                BDSNIT TBDSNIP TBDSNXT TBDSNXP TBDSNOT TBDSNOP TBDSNL)'
USERLIST  DC    C'(ZUSER)'
          SPACE 1
*-----------------------------------------------------------------------*
*         DEFINITION OF LENGTH OF PANEL VARIABLES                       *
*-----------------------------------------------------------------------*
          SPACE 1
LENGTH2   DC    F'2'
LENGTH4   DC    F'4'
LENGTH5   DC    F'5'
LENGTH6   DC    F'6'
LENGTH8   DC    F'8'
LENGTH11  DC    F'11'
LENGTH12  DC    F'12'
LENGTH44  DC    F'44'
LENGTH71  DC    F'71'
          SPACE 1
*-----------------------------------------------------------------------*
*         DEFINITION OF PANEL VARIABLES                                 *
*-----------------------------------------------------------------------*
          SPACE 1
SELCMD    DC    C'CMD(%EDITB)'
ZUSERLIT  DC    C'(ZUSER)'
DSNLIT    DC    C'(TBDSN)'
DSNWLIT   DC    C'(TBDSNW)'
DSNSLIT   DC    C'(TBDSNS)'
DSNLLIT   DC    C'(TBDSNL)'
DSNALIT   DC    C'(TBDSNAT)'
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DSNALITP DC    C'(TBDSNAP)'                                             13580000
DSNCLITT DC    C'(TBDSNCT)'                                             13590000
DSNCLITP DC    C'(TBDSNCP)'                                             13600000
DSNILITT DC    C'(TBDSNIT)'                                             13610000
DSNILITP DC    C'(TBDSNIP)'                                             13620000
DSNXLITT DC    C'(TBDSNXT)'                                             13630000
DSNXLITP DC    C'(TBDSNXP)'                                             13640000
DSNOLITT DC    C'(TBDSNOT)'                                             13650000
DSNOLITP DC    C'(TBDSNOP)'                                             13660000
STDLIT   DC    C'(TBSTD)'                                               13670000
RLSLIT   DC    C'(TBRLS)'                                               13680000
VERSLIT  DC    C'(TBVER)'                                               13690000
AGCYLIT  DC    C'(TA)'                                                  13700000
REASLIT  DC    C'(TBREAS)'                                              13710000
NUMBLIT  DC    C'(TBNUMB)'                                              13720000
LASTLIT  DC    C'(TLASTS)'                                              13730000
RTC      DC    C'(RTC)'                                                 13740000
REEZ     DC    C'(REEZ)'                                                13750000
DD       DC    C'(DD)'                                                  13760000
         SPACE 1                                                        13770000
*---------------------------------------------------------------------* 13780000
*        DCB'S                                                        * 13790000
*---------------------------------------------------------------------* 13800000
         SPACE 1                                                        13810000
ERRDCB   DCB   DDNAME=TESTBED2,DSORG=PS,MACRF=GM                        13820000
         SPACE 1                                                        13830000
INPDCB   DCB   DDNAME=INPUT,DSORG=PS,MACRF=GL                           13840000
         SPACE 1                                                        13850000
OUTDCB   DCB   DDNAME=SGMTFILE,DSORG=PS,MACRF=PM                        13860000
         SPACE 1                                                        13870000
STOREDCB DCB   DDNAME=STORE,DSORG=PS,MACRF=PM                           13880000
         SPACE 1                                                        13890000
LOGDCB   DCB   DDNAME=LOG,DSORG=PS,MACRF=PM                             13900000
         SPACE 1                                                        13910000
OUTDCBX  DCB   DDNAME=SGMTFILE,DSORG=PS,MACRF=GL                        13920000
         SPACE 1                                                        13930000
         LTORG                                                          13940000
         SPACE 1                                                        13950000
ERRRDW   DC    AL2(*-*,0)                                               13960000
ERRBUFF  DS    XL3123                  ERROR BUFFER RECORD              13970000
BDMODNUM DC    CL8'MD00049'            EDI MOD NUMBER                   99999996
         END                                                            99999999
```

What is claimed is:

1. A method for interactively translating electronic data interchange files, comprising the steps of:
   (a) generating a plurality of displays for interactively controlling the translation of an electronic data interchange file;
   (b) translating said electronic data interchange file until a translation error exists;
   (c) displaying said translation error on at least one of said plurality of displays so that said translation error may be corrected interactively;
   (d) correcting said displayed translation error in response to data entered on said at least one of said plurality of displays; and
   (e) repeating steps (a) through (d) until no translation error exists.

2. The method of claim 1, wherein said electronic data interchange file comprises transaction data to be communicated from a sending computer to a receiving computer and said translating step occurs after communicating said electronic data interchange file to said receiving computer.

3. The method of claim 2, wherein said correcting step further comprises the steps of:
   forming a segment file for containing a portion of said electronic data interchange file where said portion includes said translation error;
   placing said portion of said electronic data interchange file into said segment file;
   displaying said portion on said at least one of said plurality of displays for correcting said translation error; and
   forming a working file comprising all correctly translated portions of said electronic data interchange file.

4. The method of claim 2, wherein said displaying and correcting steps occur interactively without the need to retranslate all previously translated portions of said electronic data interchange file.

5. The method of claim 1, further comprising the step of logging each of said translation error occurring during the translation of said electronic data interchange file.

6. The method of claim 1, further comprising the step of forming a working file of all correctly translated portions of said electronic data interchange file.

7. A programmable machine system for interactively translating business transaction data between a plurality of different dictionary-structured transaction formats, said machine system including a plurality of system components, said machine system comprising:
   output circuitry for generating a plurality of visible signals corresponding to the status of translation of said business transaction data from one format to another predetermined format;
   translation circuitry for translating said business transaction data into said predetermined format;
   error detection and reporting circuitry for detecting the existence of a translation error and communicating said translation error to said output circuitry;
   editing circuitry for interactively receiving corrections to said business transaction data and for modifying said business transaction data in response to said corrections generating corrected business transaction data; and
   said translation circuitry translating said corrected business transaction data.

* * * * *